9-2320-260-20-1

TM 9-2320-260-20-1
T.O. 36A12-1C-432-1-1

TECHNICAL MANUAL

VOLUME 1 OF 3

# SCHEDULED MAINTENANCE

ORGANIZATIONAL LEVEL

## 5-TON, 6X6, M809 SERIES TRUCKS (DIESEL)

**TRUCK, CHASSIS: M809, M809A1, M810, M811, M811A1, M811A2, M812; TRUCK, CHASSIS, ROCKET LAUNCHER: M812A1; TRUCK, CARGO: M813, M813A1, M814; TRUCK, BOLSTER, LOGGING: M815; TRUCK, WRECKER, MEDIUM: M816; TRUCK, DUMP: M817; TRUCK, TRACTOR: M818; TRUCK, TRACTOR, WRECKER: M819; TRUCK, VAN, EXPANSIBLE: M820, M820A1, M820A2; TRUCK, STAKE, BRIDGE TRANSPORTING: M821**

Chapter 1 Preventive Maintenance

Chapter 2 Checkout, Alinement, and Adjustment

Chapter 3 Lubrication

Chapter 4 Scheduled Maintenance of Material Used in Conjunction with Major Items

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Appendix B Maintenance Allocation Chart

**NOTE:**
THE STYLE OF THIS TM IS EXPERIMENTAL. IT IS BEING TRIED BY THE ARMY ONLY ON A LIMITED BASIS

DEPARTMENTS OF THE ARMY AND THE AIR FORCE

JANUARY 1981

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## WARNING

### EXHAUST GASES CAN BE DEADLY

Exposure to exhaust gases produces symptoms of headache, dizziness, loss of muscular control, apparent drowsiness, and coma. Permanent brain damage or death can result from severe exposure.

Carbon monoxide occurs in the exhaust fumes of fuel burning heaters and internal combustion engines, and becomes dangerously concentrated under conditions of inadequate ventilation. The following precautions must be observed to insure the safety of personnel whenever fuel burning heater(s) or engine of any vehicle is operated for maintenance purposes or tactical use.

Do not operate heater or engine of vehicle in an enclosed area unless it is adequately ventilated.

Do not idle engine for long periods without maintaining adequate ventilation in personnel compartments.

Do not drive any vehicle with inspection plates or cover plates removed unless necessary for maintenance purposes.

Be alert at all times during vehicle operation for exhaust odors and exposure symptoms. If either are present, immediately ventilate personnel compartments. If symptoms persist, remove affected personnel from vehicle and treat as follows: expose to fresh air; keep warm; do not permit physical exercise; if necessary, administer artificial respiration.

If exposed, seek prompt medical attention for possible delayed onset of acute lung congestion. Administer oxygen if available.

The best defense against exhaust gas poisoning is adequate ventilation.

## WARNING

Serious or fatal injury to personnel may result
if the following instructions are not complied with.

Use extreme care when removing radiator cap, especially when temperature gage shows above 180°F.

Always wear leather gloves when handling winch cable. Never allow cable to slip through hands. Do not operate winch with less than four turns of cable on drum.

Do not drive truck until the low air pressure warning buzzer is silent and the air pressure gage shows at least 65 PSI. This is the minimum pressure required for safe braking action.

Do not use hand throttle to drive the vehicle.

Do not park truck with front transmission gearshift lever in gear.

If your vehicle class number is greater than the bridge class number, do not cross.

*TM 9-2320-260-20-1

TO 36A12-1C-432-1-1

Technical Manual
No. 9-2320-260-20-1
Technical Order
No. 36A12-1C-432-1-1

DEPARTMENTS OF THE ARMY
AND
THE AIR FORCE
Washington, DC, 12 January 1981

TECHNICAL MANUAL

VOLUME 1 OF 3

# SCHEDULED MAINTENANCE

ORGANIZATIONAL LEVEL

# 5-TON, 6X6, M809 SERIES TRUCKS

# (DIESEL)

| Model | | NSN Without Winch | NSN With Winch |
|---|---|---|---|
| Chassis | M809 | 2320-00-050-8842 | 2320-00-050-8841 |
| Chassis | M809A1 | | 2320-00-050-8941 |
| Chassis | M810 | 2320-00-051-0586 | 2320-00-051-0585 |
| Chassis | M811 | 2320-00-050-8986 | 2320-00-050-8985 |
| Chassis | M811A1 | | 2320-00-050-8989 |
| Chassis | M811A2 | 2320-00-050-9005 | |
| Chassis | M812 | | 2320-00-050-9011 |
| Chassis, Rocket Launcher | M812A1 | | 2320-00-050-9040 |
| Truck, Cargo | M813 | 2320-00-050-8902 | 2320-00-050-8990 |
| | M813A1 | 2320-00-050-8913 | 2320-00-050-8905 |
| | M814 | 2320-00-050-8488 | 2320-00-050-8987 |
| Truck, Bolster, Logging | M815 | | 2320-00-050-8927 |
| Truck, Wrecker, Medium | M816 | | 2320-00-051-0489 |
| Truck, Dump | M817 | 2320-00-050-8970 | 2320-00-051-0589 |
| Truck, Tractor | M818 | 2320-00-050-8984 | 2320-00-050-8978 |
| Truck, Tractor, Wrecker | M819 | | 2320-00-050-9004 |
| Truck, Van, Expansible | M820 | 2320-00-050-9006 | |
| | M820A1 | 2320-00-050-9007 | |
| | M820A2 | 2320-00-050-9010 | |
| Truck, Stake, Bridge Transporting | M821 | 2320-00-050-9015 | |

*This manual, together with TM 9-2320-260-20-2-1, 12 January 1981; TM 9-2320-260-20-2-2, 12 January 1981; TM 9-2320-260-20-3-1, 12 January 1981; TM 9-2320-260-20-3-2, 12 January 1981; TM 9-2320-260-20-3-3, 12 January 1981; and TM 9-2320-260-20-3-4, 12 January 1981 supersedes TM 9-2320-260-20, 25 July 1972, including all changes.

## REPORTING OF ERRORS AND RECOMMENDING IMPROVEMENTS

You can help improve this manual. If you find any mistakes or if you know of a way to improve the procedure, please let us know. Mail your letter, DA Form 2028 (Recommended Changes to Publication and Blank Forms), or DA Form 2028-2 located in the back of this manual direct to: Commander, U.S. Army Tank Automotive Materiel Readiness Command, ATTN: DRSTA-MB, Warren, Michigan 48090. A reply will be furnished to you.


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# CHAPTER 1
# PREVENTIVE MAINTENANCE

**1-1. General.** The best way to maintain vehicles covered by this manual is to inspect them on a regular basis so minor faults can be discovered and corrected before they result in serious damage, failure, or injury. This section contains systematic instructions for inspection, adjustment, and correction of vehicle components to avoid costly repairs or major breakdowns. This is preventive maintenance checks and services (PMCS).

**1-2. Intervals.** Organizational maintenance, assisted by operator crew will perform the checks and services contained in table 1-1 at the following intervals:

*a. Semiannually (S).* Every 6 months or 6,000 miles (9,656 km.), whichever comes first.

*b. Annually (A).* Every 12 months or 12,000 miles (19,311 km.), whichever comes first.

*c. Biennially (B).* Every 24 months or 24,000 miles (38,622 km.), whichever comes first.

**1-3. Reporting Repairs.** All vehicle shortcomings will be reported on DA 2404 (TM 38-750), Equipment Inspection and Maintenance Worksheet, immediately after the PMCS and before taking corrective action. They will also be reported in the equipment log.

**1-4. General Service and Inspection Procedures.**

*a.* While performing specific PMCS procedures make sure items are correctly assembled, secure, not unserviceable, not worn, not leaking, and adequately lubricated as defined below:

*(1)* An item is CORRECTLY ASSEMBLED when it is in proper position and all parts are present.

*(2)* When wires, nuts, washers, hoses, or attaching hardware to an item cannot be moved by hand, wrench, or pry-bar, it is SECURE.

*(3)* An item is UNSERVICEABLE if it is worn beyond repair and is likely to fail before the next scheduled inspection.

*(4)* An item is WORN if there is too much play between joining parts or marking data, warning, and caution plates are not readable.

*(5)* An item LEAKS if:

*(a)* There is fluid seepage as indicated by wetness, discoloration, or smell.

*(b)* There is air seepage as indicated by a hissing sound or the formation of bubbles exist after water has been applied directly over the area in question.

*(6)* If an item meets the requirements specified by the lubrication order, LO 9-2320-260-12, then it is ADEQUATELY LUBRICATED.

*b.* Where the instruction "tighten" appears in a procedure, you must tighten with a wrench to the given torque value even when the item appears to be secure.

**WARNING**

Dry cleaning solvent used to clean parts can be harmful to personnel and property. Do not use near open flame or excessive heat. Flash point of solvent is 138° F (59° C).

*c.* Where the instruction "clean" appears in a procedure, you must use dry cleaning solvent (SD-2), specification P-D 680 to clean grease or oil from metal parts. After the item is cleaned, rinsed, and dried, apply a light grade of oil to unprotected surfaces to prevent rusting. On rubber and plastic materials use soap and water.

**1-5. Specific PMCS Procedures.**

*a.* The preventive maintenance for which you are responsible is provided below in table 1-1. The checks and services listed are arranged in logical order requiring minimal time and effort on your part.

*b.* The following columns read across on the PMCS schedule:

*(1) Item Number.* Provides logical order for PMCS performance and is used as a source number for SF-368, on which your PMCS results will be recorded.

*(2) Intervals.* Shows a bullet (●) opposite each item number to indicate when that check is to be performed. The bullet will be repeated when consecutive item numbers are to be inspected during the same interval. Interval columns include:

*(a)* Semiannual (six month) checks.

*(b)* Annual (yearly) checks.

*(c)* Biennially (every two years) checks.

*(3) Item To Be Inspected.* Lists the system, common name, or location of the item to be inspected.

*(4) Procedures.* Provides instructions for servicing, inspection, replacement, or adjustment, and in some cases, having item repaired at a higher level.

## 1-6. Preventive Maintenance Locators.

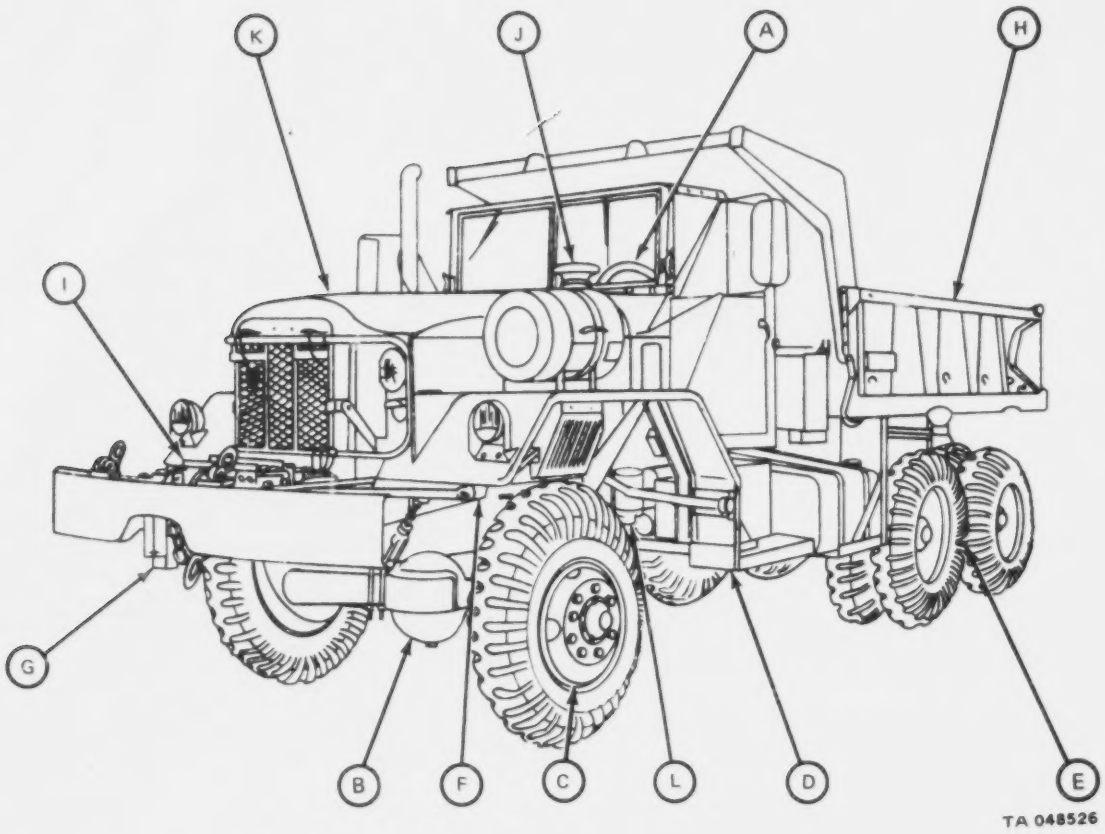
Refer to Figures 1-1 through 1-9 for general preventive maintenance locations.

**NOTE**

Always do your preventive maintenance checks and services in the order it has been prepared. Once it gets to be a habit, you'll be able to spot anything wrong in a hurry.

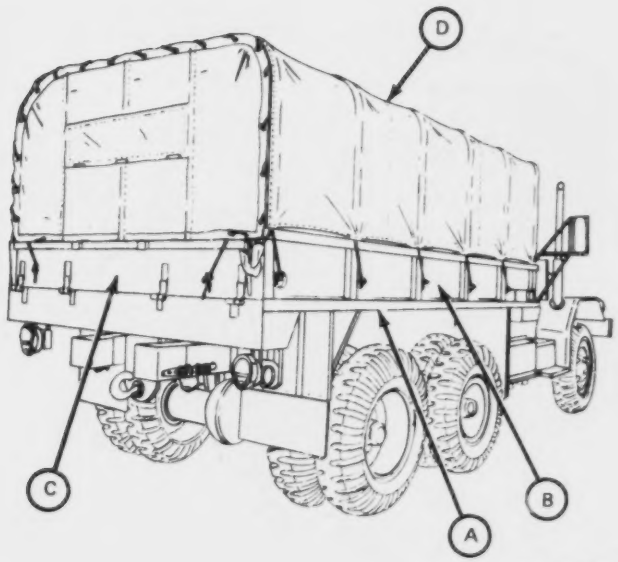
**NOTE**

All references to TM 9-2320-260-10 in this publication apply to the series.



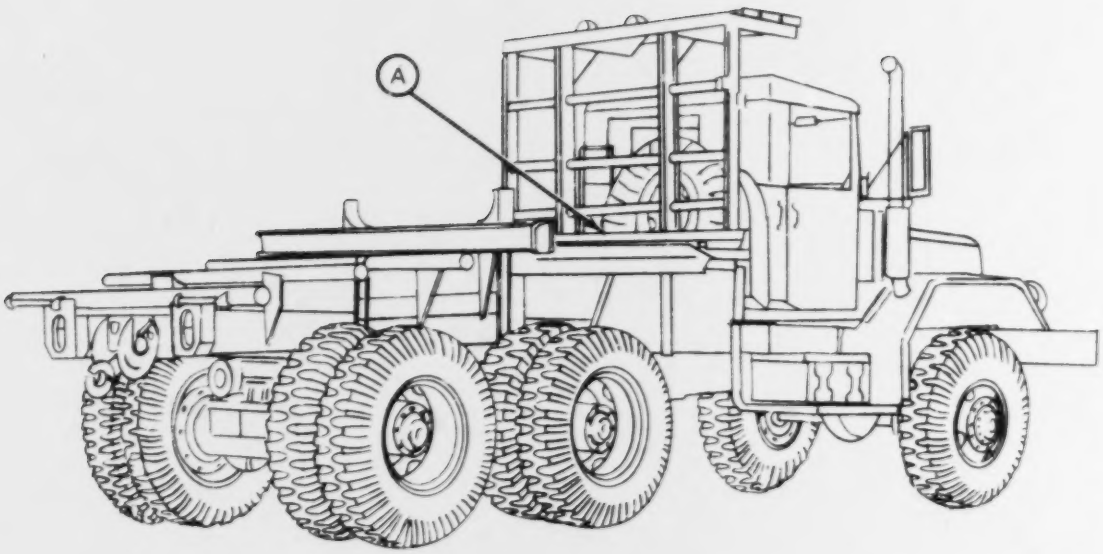

A. Controls
B. Front axle
   Front differential
   Front springs and shock absorbers
C. Wheel hubs
   Brake drums
   Wheels and tires
D. Transmission
   Transfer case
   Propeller shafts
   Air reservoirs
   Air-hydraulic cylinder
E. Rear axles
   Rear differentials
   Rear springs and spring seat
F. Steering gear assembly
G. Power steering cylinder assembly
H. Body and frame
I. Front winch
J. Air cleaner
K. Engine crankcase breather
   Oil filters
   Manifold preheater
L. Fuel filter/water separator

Figure 1-1. Preventive Maintenance Locators.




A. Bedplate
B. Side panels
C. Tailgate
D. Body tarpaulin

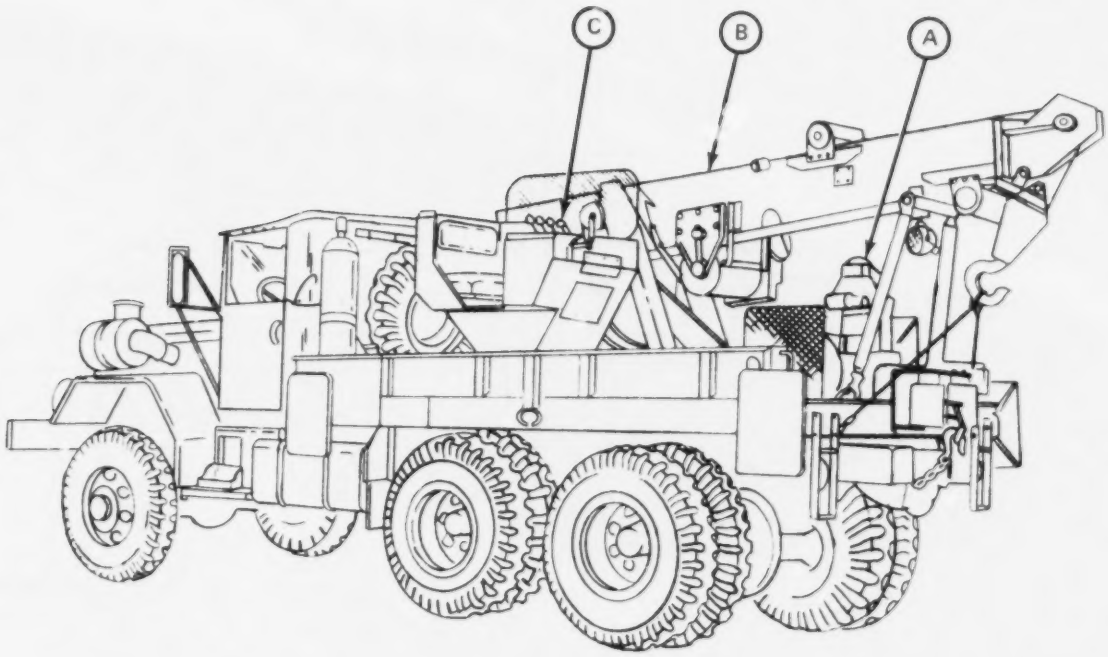
**Figure 1-2. M813, M813A1, and M814 Cargo Trucks, Preventive Maintenance Locators.**




TA 048530

A. Midships winch

Figure 1-3. M815 Bolster Truck, Preventive Maintenance Locators



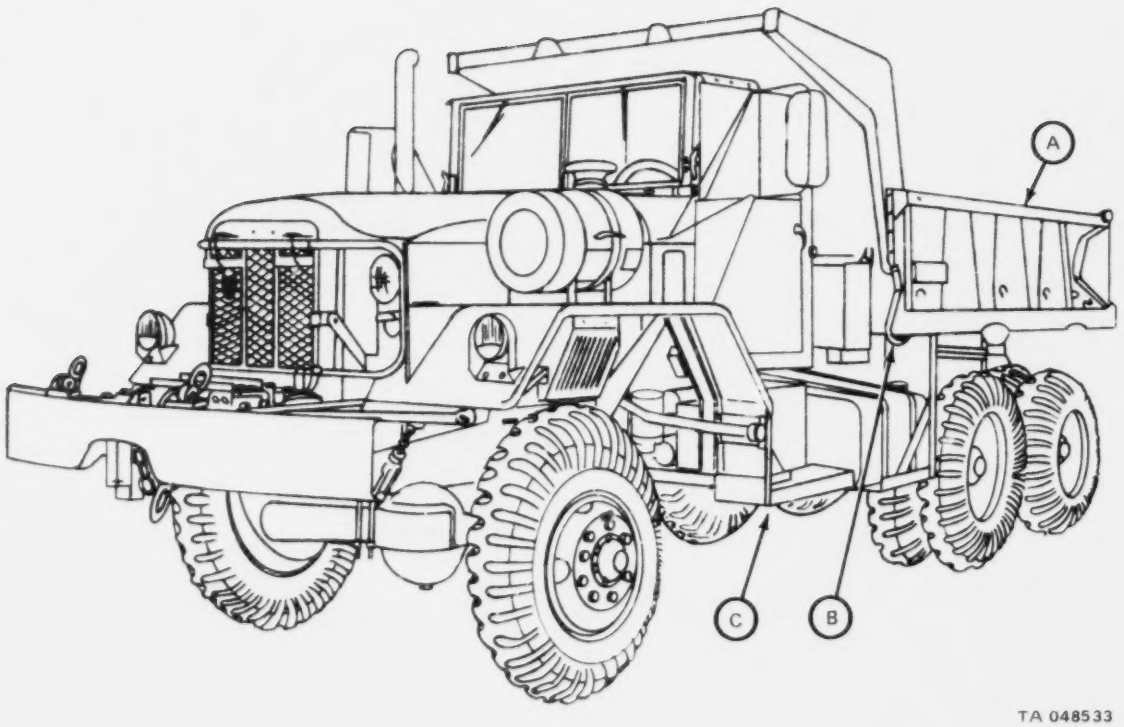

TA 048531

A. Rear winch

B. Boom assembly

C. Boom controls,
Pressure relief valve,
Floodlights.

Figure 1-4. M816 Medium Wrecher Truck, Preventive Maintenance Locators.

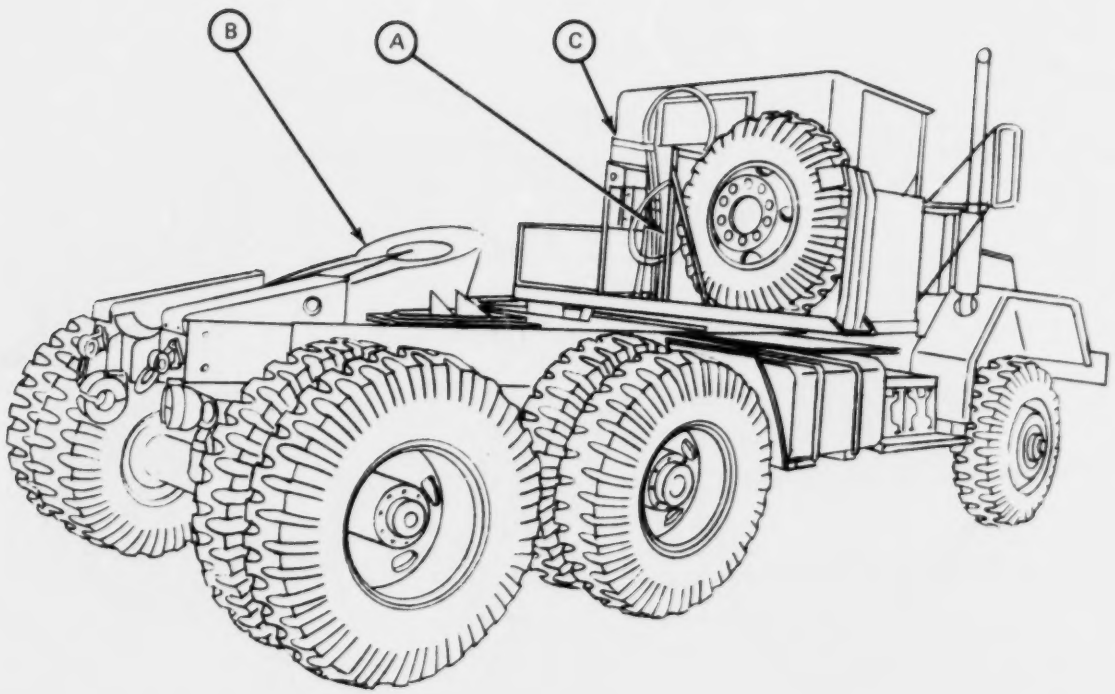



A. Dump body

B. Tailgate control rod hand lever

C. Hydraulic hoist system

Figure 1-5. M817 Dump Truck, Preventive Maintenance Locators.



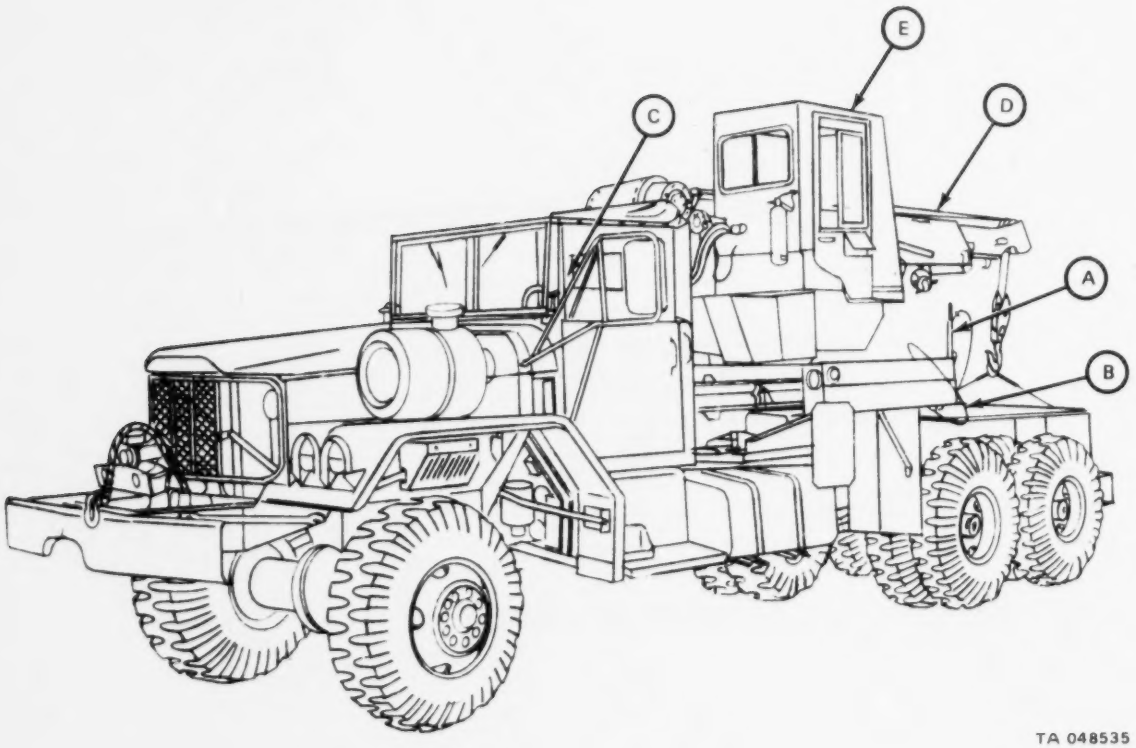

TA 048534

A. Airbrake hoses

B. Fifth wheel

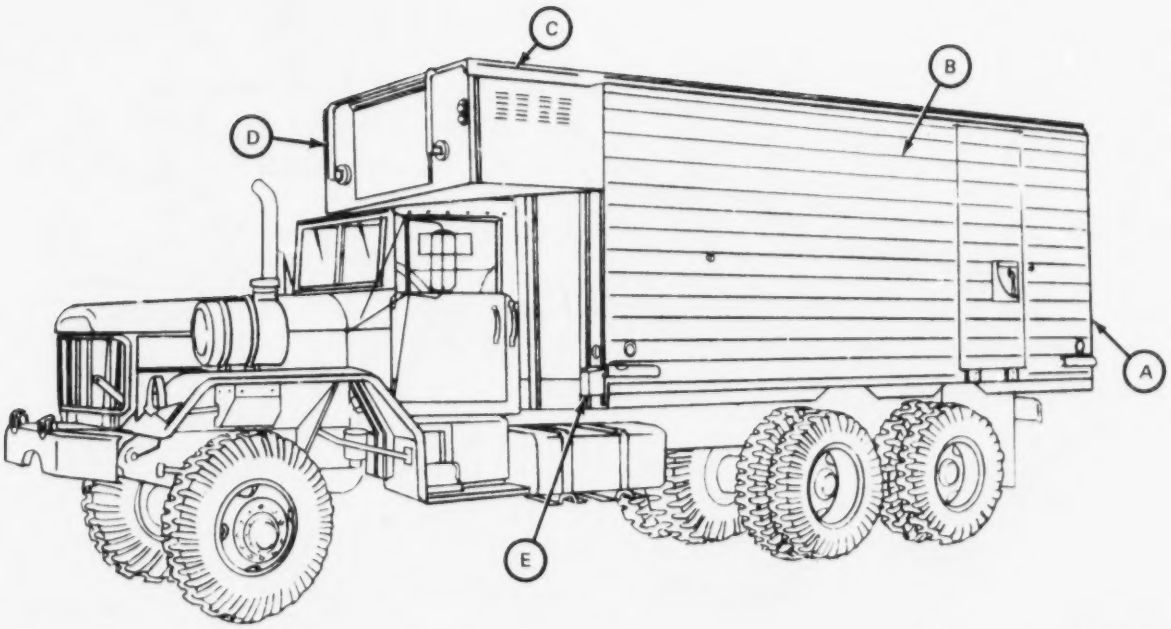
C. Airbrake hand control valve

Figure 1-6. M818 Tractor Truck, Preventive Maintenance Locators.




A. Airbrake hoses
   Electrical cable
B. Fifth wheel
C. Airbrake hand control valve
D. Crane assembly floodlights
E. Crane assembly controls

Figure 1-7. M819 Tractor Wrecker Truck, Preventive Maintenance Locators.




TA 048538

A. Tailgate assembly
AC and DC circuits

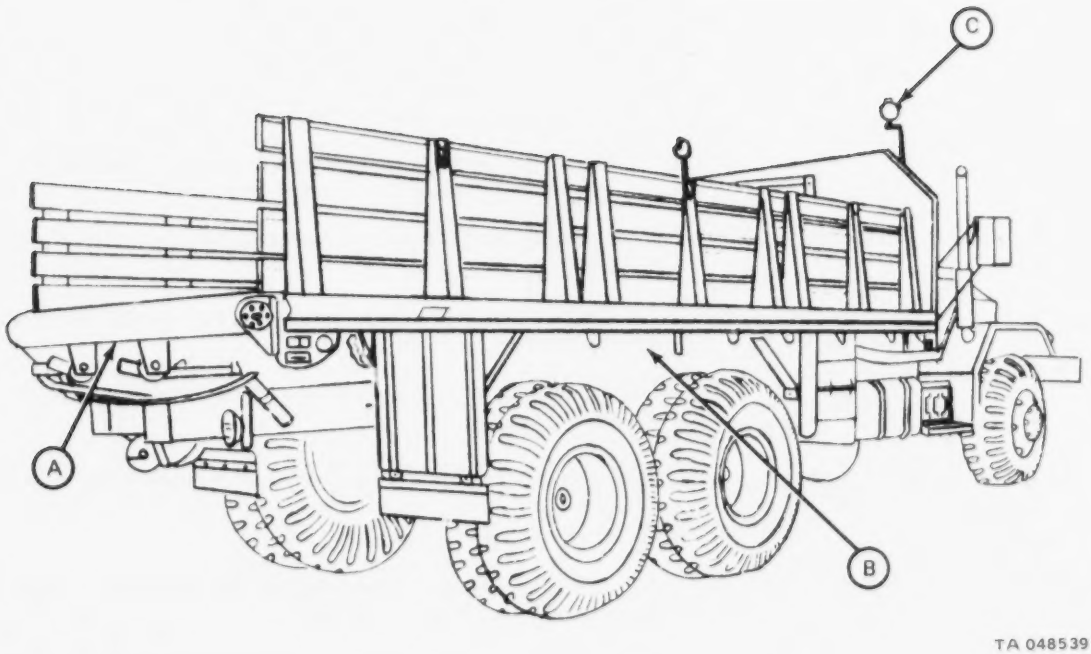
B. Body panels

C. Heater and controls
Air conditioner and controls

D. Heater exhaust pipes

E. Heater fuel pump
Heater fuel lines

Figure 1-8. M820, M820A1, and M820A2 Expansible Van Trucks, Preventive Maintenance Locators.




A. Tailboard roller assembly
Cable rollers
Rear winches

B. Side winches

C. Floodlights

**Figure 1-9. M821 Bridge Transporting Stake Truck, Preventive Maintenance Locators.**

*Table 1-1. Organizational Preventive Maintenance Checks and Services (continued).*

**S-Semiannually** **A-Annually** **B-Biennially**

| Item No. | Interval S | Interval A | Interval B | Item To Be Inspected | Procedures |
|---|---|---|---|---|---|
| | | | | | **PRIOR TO ROAD TEST:**<br><br>Perform all before operation checks listed in TM 9-2320-260-10, "Preventive Maintenance Checks and Services".<br><br>**NOTE**<br><br>Road test must be performed regardless of interval.<br><br>**ROAD TEST**<br><br>**NOTE**<br><br>The following inspections will be performed during starting and warm-up, just prior to actual road test. |
| 1 | | | | Starter | While starting vehicle, listen for unusual noises and difficult cranking at starter. |
| 2 | | | | Engine and engine compartment | *a.* Listen for unusual noises, hesitations, and varying idle speed. Observe response to accelerator feed.<br><br>*b.* Be alert for excessive vibration and the smell of fuel, oil, or exhaust. |
| 3 | | | | Dials and indicators | Observe the following dials and indicators for proper operation:<br><br>*a. Low Air Pressure Warning Buzzer.* Will sound off when air pressure is below 60 psi. (413 kPas.).<br><br>*b. Air Pressure Gages.* Will reach operating pressure (120 psi. - 826 kPas.) within two minutes of starting.<br><br>*c. Battery Generator Indicator.* Needle will point to green area when batteries are holding a full charge.<br><br>*d. Tachometer.* Will read 550-600 rpm. with engine idling.<br><br>*e. Engine Oil Pressure Gage.* Will read between 25-70 psi. (172-483 kPas.) at normal operating speed. At idle, 25-70 psi. (172-483 kPas.) will be indicated.<br><br>*f. Engine Coolant Temperature Gage.* Will read 165-185° F (74-85° C) at normal operating temperature.<br><br>*g. Air Filter Indicator.* Shows red flag when there are restrictions in the air intake system. |

*Table 1-1. Organizational Preventive Maintenance Checks and Services (continued).*

**S-Semiannually** **A-Annually** **B-Biennially**

| Item No. | Interval S | Interval A | Interval B | Item To Be Inspected | Procedures |
|---|---|---|---|---|---|
| 4 | | | | Cab safety devices | Observe the following items and their controls for security, ease of movement, and proper operation:<br>*a. Horn*<br>*b. Windshield Wipers and Washers*<br>*c. Seat Belts and Fasteners*<br>*d. Turn Signals*<br>*e. Panel Lights*<br>*f. Headlights*<br>*g. Stoplights*<br>*h. Blackout Lights*<br>*i. Parking Lights*<br>*j. Hazard Warning Lights*<br>**NOTE**<br>Now begin the actual road test. The vehicle will be driven at least five miles over varied terrain. This will provide ample time for detection of malfunctions. |
| 5 | | | | Accelerator | Test for engine response to accelerator feed. Observe sticking or binding of accelerator pedal. |
| 6 | | | | Brakes | *a.* Test braking response to brake pedal. Vehicle must slow down immediately.<br>*b.* Reach a desired speed and lightly apply brake pedal with steady force. Vehicle must stop smoothly without noticeable side-pull or chatter.<br>*c.* After stopping vehicle and with transmission in neutral, release brake pedal. The wheel brakes must release immediately and without difficulty.<br>*d.* With vehicle on incline and transmission in neutral, engage parking brake. Vehicle must not move. |
| 7 | | | | Steering | *a.* Check vehicle response to steering wheel action. Vehicle must respond instantly. Check steering wheel free play. With vehicle moving forward, free play must not exceed more than 1 inch (2.54 cm ) in either direction. |

*Table 1-1. Organizational Preventive Maintenance Checks and Services (continued).*

**S-Semiannually** **A-Annually** **B-Biennially**

| Item No. | Interval S | A | B | Item To Be Inspected | Procedures |
|---|---|---|---|---|---|
| | | | | | *b.* Turn steering wheel to extreme left, then right, to detect hard steering, steering backlash, or shimmy. |
| | | | | | *c.* With vehicle on straight, level terrain, lightly hold steering wheel to detect pull or wander. |
| 8 | | | | Engine | *a.* Check engine operation at all speeds. Be sure that engine does not exceed governed speed (2100 rpm). |
| | | | | | *b.* Observe engine instruments to detect malfunctions. |
| | | | | | *c.* Be alert for unusual noises or smells. |
| 9 | | | | Transmission | *a.* Check for response to shifting and smoothness of operation in all speed ranges. |
| | | | | | *b.* Be alert for unusual noises and difficulty in shifting in any speed range. |
| 10 | | | | Transfer | Engage transfer to insure proper operation. Observe smoothness of engagement. |
| 11 | | | | Suspension | Observe how vehicle responds to road shocks. Shifts or constant bouncing indicates malfunction. |
| 12 | | | | Emergency fuel cut-off control | Pull out to stop engine. When engine has stopped, push in to original position. |
| | | | | | **AFTER ROAD TEST:** |
| 13 | • | | | Clutch | Check clutch free travel. Free travel must be from 2 to 2½ inches. Determine if the action of the pedal return spring is satisfactory. With the transmission in neutral, depress the clutch pedal and listen for unusual noise which may indicate a defective release bearing. Note if the clutch disengages completely or if it has a tendency to drag. Note if the clutch chatters, grabs, or slips. Repair as necessary. |
| 14 | • | | | Hubs and drums | *a.* Beginning at rear of vehicle, cautiously feel each wheel hub and brake drum for overheating which can indicate a defective wheel bearing or dragging brake. |
| | • | | | | *b.* Brake drums cool to the touch usually indicate improper adjustmant, defective or inoperative brake. |
| 15 | • | | | Axles, transmission, transfer, and differentials | Cautiously feel each for overheating which can indicate low lubrication levels. |
| | | | | | **NOTE** |
| | | | | | Items 16 and 17 will be inspected as you get to them during the after road test procedures. |

*Table 1-1. Organizational Preventive Maintenance Checks and Services (continued).*

**S-Semiannually** **A-Annually** **B-Biennially**

| Item No. | Interval S | Interval A | Interval B | Item To Be Inspected | Procedures |
|---|---|---|---|---|---|
| | | | • | Vehicle exterior | Inspect the following items for completeness, security, operation, and readability, as in the case of data plates: |
| | | | | | *a. Glass* |
| | | | • | | *b. Fasteners* |
| 16 | | | • | | *c. Hinges* |
| | | | • | | *d. Panels* |
| | | | • | | *e. Storage Boxes* |
| | | | • | | *f. Tarpaulin* |
| | | | • | | *g. Data, Caution, and Warning Plates* |
| | • | | | | *h. Safety Equipment.* Inspect rear view mirrors and safety straps for serviceability. Inspect fire extinguisher for charge. |
| | • | | | | *i. Exhaust System.* Operate engine and inspect engine manifold, muffler, and exhaust pipe for leaks. Inspect for damaged pipes, loose clamps, and blown gaskets or seals. Inspect all mounting clamps for tightness |
| | | | | | *a.* Inspect each tire for nicks, cuts, gouges, protruding objects, and wear on tread and sidewalls. |
| 17 | • | | | Tires | *b.* Insure that each tire is properly inflated (see table below). |
| | • | | | | |

| Vehicle Type (Tire Size) | Pressure (psi) Front H | Front C-C | Rear H | Rear C-C |
|---|---|---|---|---|
| M812A1 (14.00x20) | 50 | 25 | 30 | 25 |
| M813,M813A1,M814,M815,M817,M818, M820,M820A1,M820A2 (11.00x20) | 80 | 60 | 50 | 30 |
| M816 (11.00x20) | 70 | 60 | 70 | 60 |
| M819 (12.00x20) | 90 | 70 | 50 | 30 |
| M821 (14.00x20) | 50 | 40 | 30 | 25 |
| All models: Mud, sand and snow | 25 | 25 | 25 | 25 |

| Vehicle Type (Tire Size) | Pressure (kpis) Front H | Front C-C | Rear H | Rear C-C |
|---|---|---|---|---|
| M812A1 (14.00x20) | 345 | 172 | 207 | 172 |
| M813,M813A1,M814,M815,M817,M818, M820,M820A1,M820A2 (11.00x20) | 551 | 414 | 345 | 207 |
| M816 (11.00x20) | 483 | 414 | 483 | 414 |
| M819 (12.00x20) | 621 | 483 | 345 | 207 |
| M821 (14.00x20) | 345 | 276 | 207 | 172 |
| All models: Mud, sand and snow | 172 | 172 | 172 | 172 |

**H: Highway** **C-C: Cross-country**

*Table 1-1. Organizational Preventive Maintenance Checks and Services (continued).*

**S-Semiannually** **A-Annually** **B-Biennially**

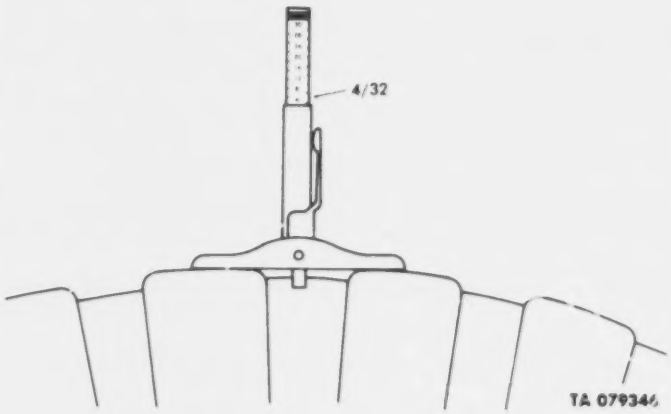
| Item No. | Interval S | Interval A | Interval B | Item To Be Inspected | Procedures |
|---|---|---|---|---|---|
| | | • | | | *c.* Check each tire for wear using tire tread depth gage as shown below. Tread depth will not be less than 1/8".   |
| | • | | | | *d.* Make sure all wheel lug nuts are present and tight on each wheel. Torque 450-500 lb-ft (610-678 N.m.). |
| | • | | | | *e.* Inspect wheel side rings for dents, bends, or breaks that could cause them to pop off when tires are being inflated. |
| | | | | | **VEHICLE UNDERSIDE:** |
| 18 | | | • | Frame and crossmembers | *a.* Inspect frame side rails for cracks, breaks, bends, wear, and deterioration. |
| | • | | | | *b.* Inspect crossmembers for missing rivets, bolts, obstructions to other components, breaks, and wear. |
| 19 | | | • | Rear axles, differentials | *a.* Inspect rear axle housings for dents, and cracks that could cause leaks. |
| | • | | | | *b.* Insure axle housing grease fittings, plugs, and fittings are present and secure. |
| | | • | | | *c.* Remove breather valves (1) and clean with compressed air, 30 psi. (207 kpls.) maximum (regulated). |
| | | • | | | *d.* Inspect differentials for dents and cracks that could cause leaks. |
| | • | | | | *e.* Insure that differential fill plug (2) and drain plug (3) are not leaking and are secure. |
| | | • | | | *f.* Tighten all rear axle drive flange bolts (4). Torque 81-104 lb-ft (110-141 N.m.). |

*Table 1-1. Organizational Preventive Maintenance Checks and Services (continued).*

**S-Semiannually** **A-Annually** **B-Biennially**

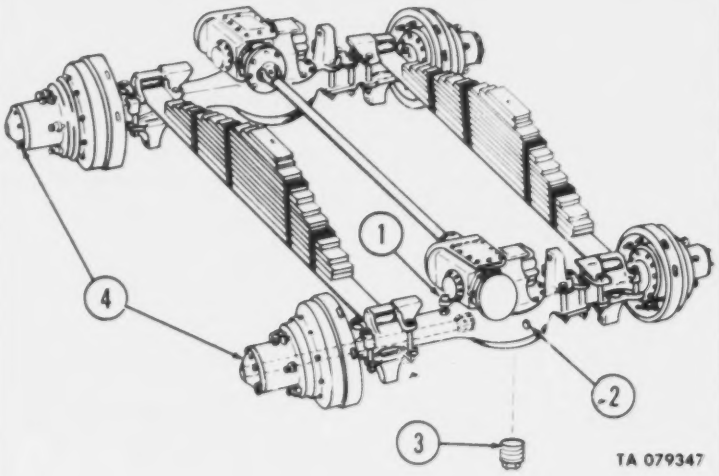
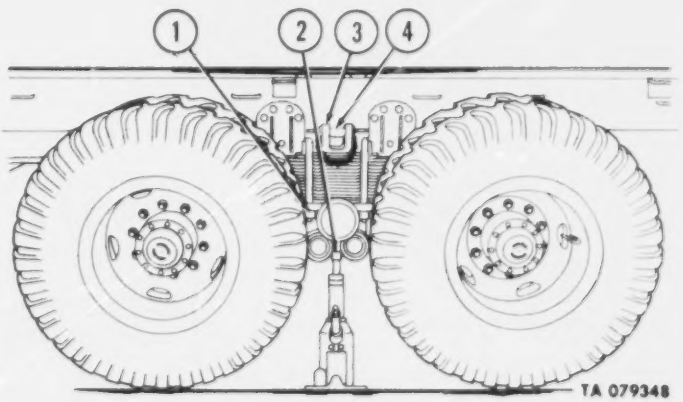
| Item No. | Interval S | Interval A | Interval B | Item To Be Inspected | Procedures |
|---|---|---|---|---|---|
| | | | | |  TA 079347 |
| 20 | • | | | Rear suspension | *a.* Inspect spring leaves, retaining clips, and center bolts for deterioration, wear, breaks, and looseness. |
| | • | | | | *b.* Tighten spring U-bolts (1). Torque 350-400 lb-ft (475-542 N.m.). |
| | | • | | | *c.* Test spring seat bearing free play by placing jack under spring seat bracket (2), jack the vehicle up so the spring moves freely up and down in the guide brackets. This removes all the applied weight from the spring seat. Put prybar between U-bolt saddle (3) and lifting pin (4). Pull up on prybar. A little free play should be detected. If there is too much free play, adjust spring seat bearing. |
| | | | | |  TA 079348 |

*Table 1-1. Organizational Preventive Maintenance Checks and Services.*

S-Semiannually A-Annually B-Biennially

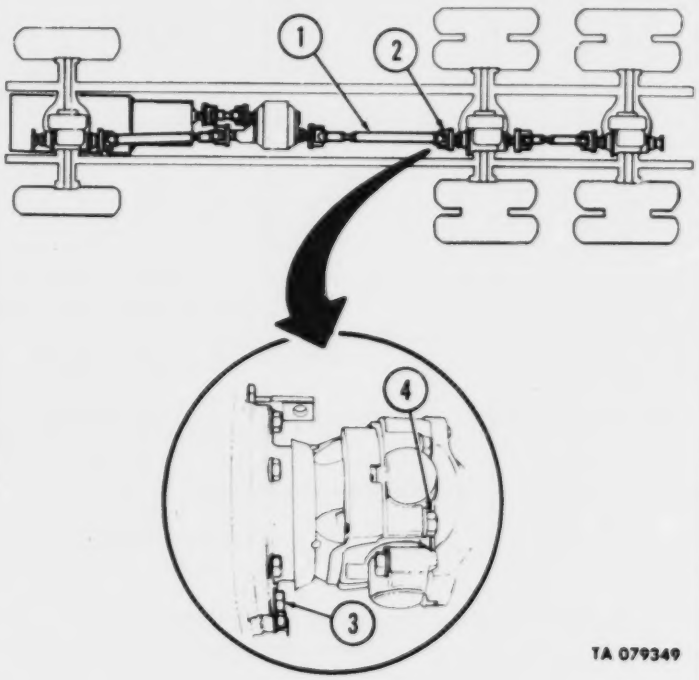
| Item No. | Interval S | Interval A | Interval B | Item To Be Inspected | Procedures |
|---|---|---|---|---|---|
| 21 | • | | | Propeller shafts and universal joints | *a.* Inspect all propeller shafts (1) for bends, cracks, wear, and deterioration. |
| | • | | | | *b.* Inspect U-joints (2) for wear and play, broken or missing lubrication fittings. There will be no play at U-joints. |
| | | • | | | *c.* Make sure all companion flange mounting screws (3) and U-joint mounting screws (4) are tight. Torque both 32-40 lb-ft (43-54 N.m.). |
| | | | | |  TA 079349 |
| 22 | • | | | Transfer | *a.* Inspect transfer case for oil leaks, dents, cracks, and loose bolts that could cause leaks. |
| | | | • | | *b.* Inspect security of transfer case mounting bolts and mounting brackets. Look for evidence of bracket wear and deterioration. |
| | • | | | | *c.* Inspect shift linkage for cracks, bends, wear and play. |
| | • | | | | *d.* Inspect air vent valve (1), air shift cylinder (2) and attaching lines, hoses, tubes and connectors for cracks, breaks, leaks, and wear. |
| | • | | | | *e.* Inspect hand brake components (3) for damage, excessive wear, and malfunction. |

*Table 1-1. Organizational Preventive Maintenance Checks and Services (continued).*

S-Semiannually A-Annually B-Biennially

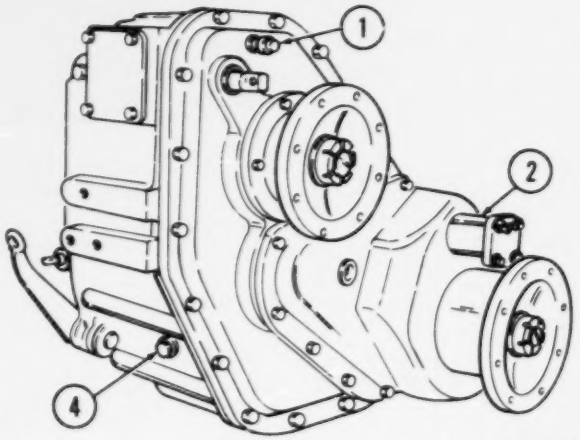
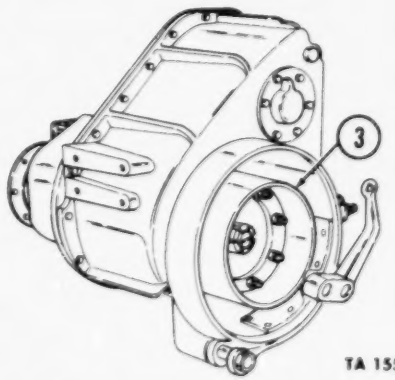
| Item No. | Interval S | A | B | Item To Be Inspected | Procedures |
|---|---|---|---|---|---|
| | | | | |  TA 155041 |
| | | | | | *f.* Inspect magnetic drain plug for evidence of metal particles. If evidence of metal particles are seen, notify DS Maintenance. Insure drain plug (4) is secure.  TA 155042 |
| 23 | • | | | Transmission | *a.* Inspect transmission case for damage and indication of oil leaks. Inspect transmission linkage for damage and excessive wear or play. Check oil level. Operate engine and shift transmission through all speed ranges; check operation and be alert for unusual noises. Inspect and clean air breather valve. Visually check oil for contamination (metal particles, dirt, sand). |
| | • | | | | *b.* Inspect transmission shift linkage for bends, excessive play, cracks, and wear that could cause failure. |

*Table 1-1. Organizational Preventive Maintenance Checks and Services (continued).*

**S-Semiannually** **A-Annually** **B-Biennially**

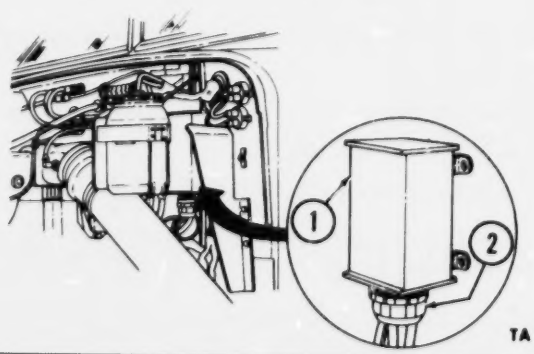
| Item No. | Interval S | Interval A | Interval B | Item To Be Inspected | Procedures |
|---|---|---|---|---|---|
| 24 | • | | | Engine underside | *a.* Inspect underside of engine for fuel, water, and oil leaks. |
| | • | | | | *b.* Inspect oil pan and pan drain plug for leaks, and security. Tighten oil pan mounting screws. Torque 28-40 lb-ft (38-54 N.m.). |
| | • | | | | *c.* Inspect attaching components for security, leaks, breaks, dents, and completeness of assembly. |
| | • | | | | *d.* Inspect under vehicle for any indication of oil, water, fuel, or hydraulic fluid leaks. |
| | • | | | | *e.* Inspect and service crankcase breather. |
| | | | | | **ENGINE COMPARTMENT:** |
| | | | | | **NOTE** Open engine hood and secure with retaining bar. Also, remove both splash shields. Disengage emergency fuel cutoff control linkage. |
| 25 | • | | | Air intake system | *a.* Inspect air cleaner, hoses, and tubing for proper installation, cracks, breaks, and loose connections that could permit unfiltered air to enter the engine. |
| | • | | | | *b.* Inspect filter element for bends, tears, or the presence of dirt and oil. Clean or replace as necessary. |
| 26 | | • | | Starter and starter wiring | *a.* Inspect starter mounting bolts for presence and security. Tighten mounting bolts 80-100 lb-ft (108-136 N.m.) |
| | • | | | | *b.* Inspect starter wiring for frays, splits, wear, loose terminals, and missing insulation. |
| 27 | | | • | Protective control box | *a.* Inspect control box (1) for secure mounting. |
| | • | | | | *b.* Make sure quick-disconnect (2) to box is secure. |
| | | | | |   TA 155043 |

*Table 1-1. Organizational Preventive Maintenance Checks and Services (continued).*

S-Semiannually A-Annually B-Biennially

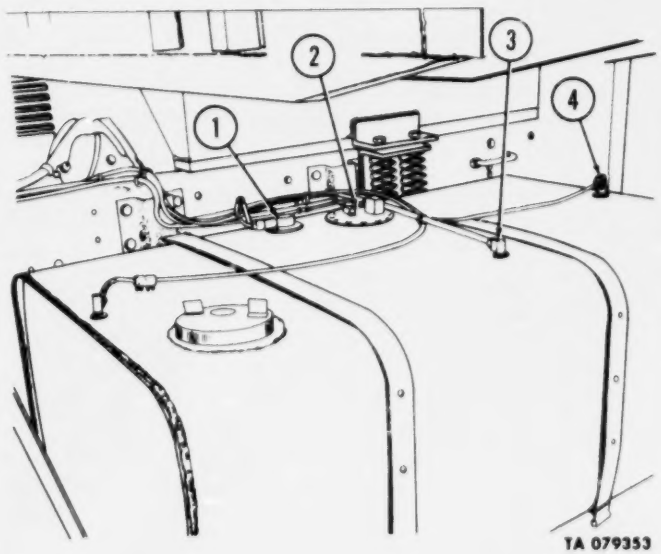
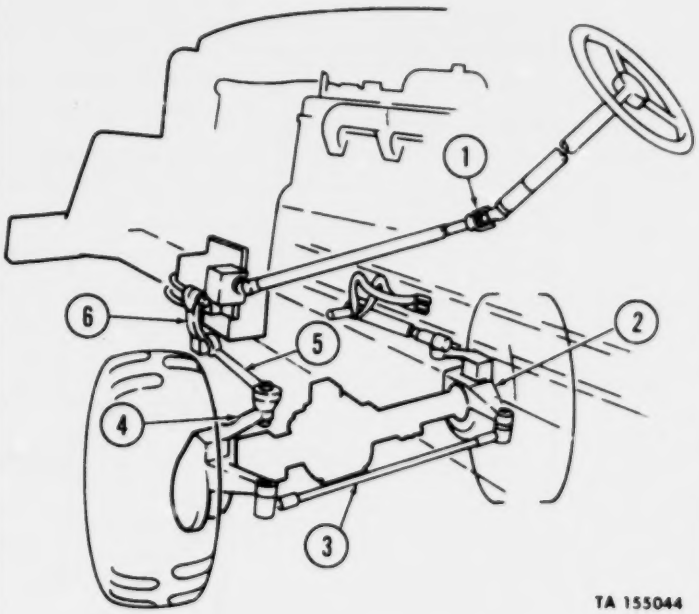
| Item No. | Interval S | Interval A | Interval B | Item To Be Inspected | Procedures |
|---|---|---|---|---|---|
| 28 | • | | | Electrical wiring | Inspect all engine compartment wiring for frays, splits, missing insulation or poor connections. Replace any worn wiring. |
| 29 | • | | | Vehicle batteries | Check specific gravity of each cell and record specific gravity. Check electrolyte level. Inspect battery cables for tightness and condition. Clean top of batteries, coat terminals lightly with grease. |
| | | | | | **NOTE**<br>The fuel, steering and air systems will not follow the PMCS flow diagram preceding this table. Return to where you left off after completing the checks and services for these systems. |
| 30 | • | | | Fuel system | *a.* Inspect fuel tank(s) for dents, cracks, and broken welds that could cause leaks. |
| | • | | | | *b.* Inspect all fuel lines for loose connections, splits, cracks, and bends that could cause leaks. |
| | • | | | | *c.* Inspect fuel sending unit (1) and its wiring for loose connections, frays, splits, and missing insulation. |
| | • | | | | *d.* Inspect fuel inlet tube (2), fuel outlet tube (3) and vent hoses (4) at fuel tank for loose connections, cracks, splits, wear, and security. |
| | | | | |  <br>TA 079353 |
| | • | | | | *e.* Inspect fuel filter housing for security, dents, and cracks that could cause leaks. Drain water from filter and inspect filter element for dirt, damage, and unserviceability. Replace any unserviceable fuel filter. |

*Table 1-1. Organizational Preventive Maintenance Checks and Services (continued).*

S-Semiannually A-Annually B-Biennially

| Item No. | Interval S | A | B | Item To Be Inspected | Procedures |
|---|---|---|---|---|---|
| | • | | | | *f.* Observe fittings to fuel pump and fuel pump body for leaks. Notify DS maintenenace if leaks exist. |
| 31 | • | | | Steering system | *a.* Inspect power steering pump for cracks or dents that could cause leaks. |
| | • | | | | *b.* Follow routing of all hydraulic steering lines, hoses, and tubes to inspect for loose fittings, cracks, bends, breaks, and leaks. |
| | • | | | | *c.* Inspect steering column U-joints (1), steering knuckles (2), tie rod assembly (3), steering arm (4), drag link (5), and pitman arm (6), for breaks, cracks, rust, wear, and unserviceability. |
| | | • | | | *d.* Tighten steering gear mounting bolts. Torque 260-280 lb-ft (353-380 N.m.). Inspect gear for leaks. Notify DS maintenance if leaks exist. |
| | | • | | | *e.* Inspect power steering assist cylinder (1) for security and proper travel adjustment (25.5 in. - 65.0 cm.). Travel adjustment distance is measured between center lines of spring shackle bolt ball stud (2) and steering knuckle arm ball stud (3). |




TA 155044

*Table 1-1. Organizational Preventive Maintenance Checks and Services (continued).*

**S-Semiannually** **A-Annually** **B-Biennially**

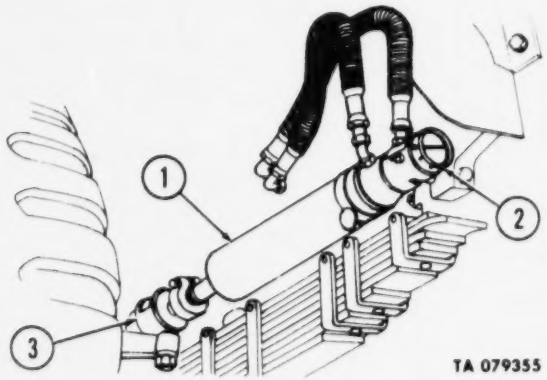
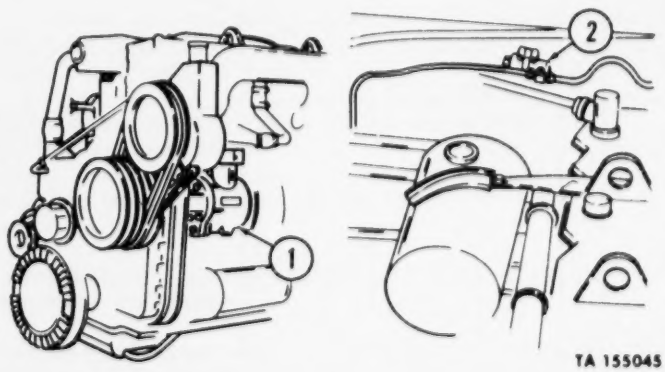
| Item No. | Interval S | Interval A | Interval B | Item To Be Inspected | Procedures |
|---|---|---|---|---|---|
| | | | | |  |
| | • | | | | *f.* Inspect steering stops for presence and security. |
| | | | | | **NOTE**<br>Anytime leakage is suspected in the compressed air system, use the soapsuds method of detection. If a leak exists, bubbles will form around the area in question. If leakage exists, tighten connection or replace component. |
| 32 | • | | | Compressed air and brake system | *a.* Drain water from air reservoirs and observe water for milky, blue, or green coloring. Any of these conditions indicate internal engine malfunctions. Nofity DS maintenance. |
| | • | | | | *b.* Inspect four air reservoirs, their attaching valves, lines and connections for mounting security, bends, dents, and cracks that could cause leaks. |
| | • | | | | *c.* Inspect air compressor (1) and air governor (2) for mounting security and leaks. |
| | | | | |  |
| | • | | | | *d.* Inspect trailer brake hoses and couplings for security and leaks. |

*Table 1-1. Organizational Preventive Maintenance Checks and Services (continued).*

**S-Semiannually** **A-Annually** **B-Biennially**

| Item No. | Interval S | A | B | Item To Be Inspected | Procedures |
|---|---|---|---|---|---|
| 33 | • | | | Drive pulleys and belts | *a.* Inspect alternator (1), fan hub (2), power steering pump (3), accessory drive (4), and vibration dampener (5), drive belts for splits, cracks, breaks, and wear. |
| | • | | | | *b.* With the aid of a ruler, check the tension of all drive belts. Belts will not give more than 3/4 inch (1.9 cm.) or less than 1/2 inch (1.27 cm.) at belt center point when properly adjusted. |
| 34 | • | | | Engine lubrication and oil lines | *a.* Check oil level at dipstick and observe evidence of metal particles at end of dipstick. Notify DS maintenance if metal particles are present. |
| | • | | | | *b.* Inspect all oil lines and hoses for cracks, frays, and wear that could cause leaks. |
| | • | | | | *c.* Inspect oil filter housing for security. Make sure filter center bolt is tight. Torque 25-35 lb-ft (34-47 N.m.). |
| | • | | | | *d.* Inspect rocker housing covers for evidence of leaks. Notify DS maintenance if leaks exist. |
| 35 | • | | | Cooling system | *a.* Inspect coolant level at surge tank. Surge tank should be at least 3/4 full. |
| | • | | | | *b.* Inspect all hoses for security, splits, wear, and cracks that could cause leaks. Inspect hose clamps for wear and serviceability. |
| | • | | | | *c.* Inspect surge tank (1), thermostat housing (2), radiator (3), water manifold (4), engine oil cooler (5) for leaks, looseness, wear, and serviceability. |

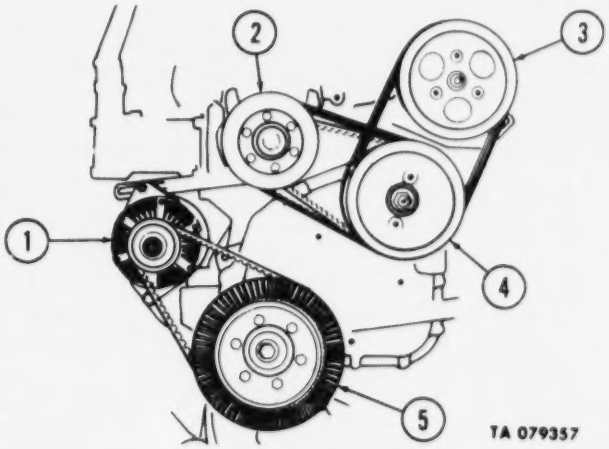


*Table 1-1. Organizational Preventive Maintenance Checks and Services (continued).*

**S-Semiannually** **A-Annually** **B-Biennially**

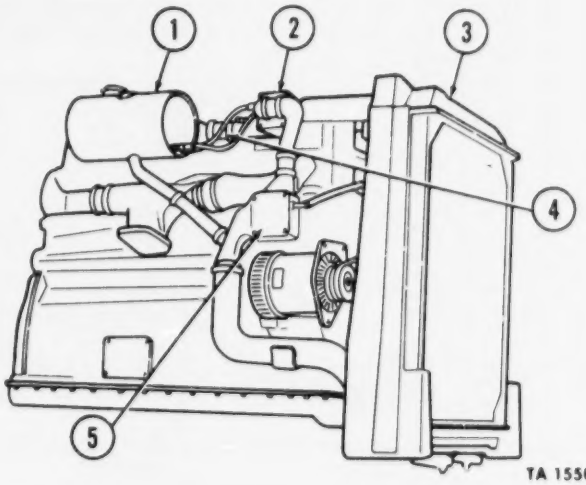
| Item No. | Interval S | Interval A | Interval B | Item To Be Inspected | Procedures |
|---|---|---|---|---|---|
| | | | | |  TA 155046 |
| | • | | | | *d.* Inspect radiator core for clogged or bent fins, leaks, and protruding objects. Clean clogged core and remove protruding objects. |
| | • | | | | *e.* Inspect fan blades for security, breaks, missing or loose bolts. |
| | • | | | | *f.* Inspect temperature sending unit for presence and security. Inspect sending unit wiring for frays, splits, breaks, and missing insulation. |
| 36 | • | | | Alternator and alternator wiring | *a.* Inspect alternator for secure mounting. |
| | • | | | | *b.* Inspect alternator mounting bracket and attaching hardware for cracks, bends, and secure mounting. |
| | • | | | | *c.* Inspect alternator wiring for security, frays, bare wires, and loose terminal connections. Make sure quick-disconnect is secure. |
| 37 | • | | | Front suspension | *a.* Inspect springs and shackles for cracks, breaks, and security. Tighten spring U-bolts. Torque 350-400 lb-ft (475-542 N.m.). |
| | | • | | | *b.* Inspect shock absorbers and mounting brackets for looseness, wear, cracks, serviceability and leaks. Replace leaking shock absorbers. |
| 38 | | • | | Front wheel alinement | Check front end alinement. Correct toe-in is 1/8 +- 1/16 inch (3.175 cm. +- 1.59 cm.). |
| 39 | | • | | Engine and cab mounts | *a.* Inspect front and rear engine and cab mounting brackets for looseness, wear, cracks, splits, broken welds, worn bushings, and missing bolts. |

*Table 1-1. Organizational Preventive Maintenance Checks and Services (continued).*

**S-Semiannually** **A-Annually** **B-Biennially**

| Item No. | Interval S | Interval A | Interval B | Item To Be Inspected | Procedures |
|---|---|---|---|---|---|
| | | • | | | *b.* Tighten front engine trunnion bolts. Torque 150 lb-ft (203 N.m.). Tighten engine flywheel housing-to-frame mounting bolts. Torque 75-83 lb-ft (102-113 N.m.). |
| | | • | | | *c.* Tighten front and rear cab mounting bolts. Torque 50 lb-ft (68 N.m.). |
| | | | | | **VEHICLE REAR:** |
| 40 | | • | | Spare tire carrier | Inspect spare tire carrier for security, completeness of assembly and proper operation. |
| 41 | | • | | Rear wiring | Inspect rear wiring at tail lights for frays, splits, loose terminals, and missing insulation. |
| 42 | | • | | Towing pintle | Check operation of pintle hook. Inspect pintle and bracket for cracks, breaks, wear and mounting security. |
| 43 | | • | | Lifting shackles and brackets | Inspect all lifting shackles and brackets for damage and completeness of assembly. |
| 44 | | • | | Front winch | *a.* Inspect winch power takeoff for operation and malfunction. Inspect condition of winch shearpin. |
| | | • | | | *b.* Check winch for operation, malfunction and damage. Check gear case oil level. Test drag brake and automatic brake. Inspect winch cable for excessive wear, damage, kinks, frayed strands, and for proper lubrication. |
| | | • | | | *c.* Inspect front winch for mounting security and broken and missing parts. |
| | • | | | | *d.* Test drag brake for proper operation. Pay off about four or five feet of cable, then stop. Drum must stop turning as soon as pulling has stopped. If winch continues to turn, adjust drag brake adjusting screw (1) and test again. |
| | • | | | | *e.* Test automatic brake by parking your vehicle on a decline. Winch another vehicle up the decline and then shift winch control lever into neutral. Winched vehicle must not roll backward. If it does, adjust automatic brake adjusting screw (2) and test again. |

*Table 1-1. Organizational Preventive Maintenance Checks and Services (continued).*

S-Semiannually A-Annually B-Biennially

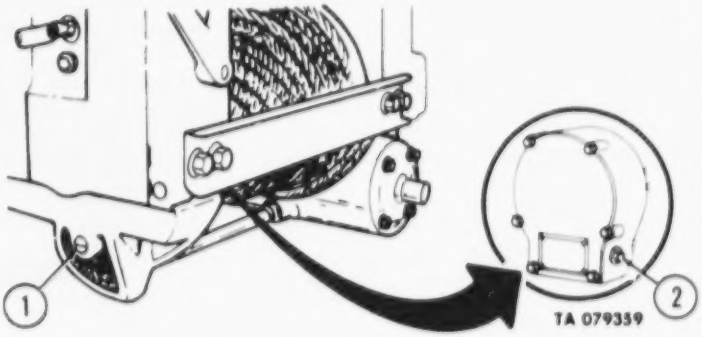
| Item No. | Interval S | Interval A | Interval B | Item To Be Inspected | Procedures |
|---|---|---|---|---|---|
| | | | | | **NOTE**<br>Place hand on brake cover after adjustment. If cover is hot to the touch, loosen adjusting screw one half turn.<br>  <br> |
| | | • | | | *f.* Unwind winch cable completely and inspect for kinks, frays, and wear. |
| 45 | | • | | Rear winch (M816) | *a.* Inspect rear winch and winch controls for mounting security. |
| | | • | | | *b.* Check winch for operation, malfunction, and damage. Check gear case oil level. Test automatic brake. Inspect winch cable for excessive wear, damage, kinks, frayed strands, and for lubrication. Test for proper cable tension. |
| | | • | | | *c.* Inspect rear winch control linkage for operation, malfunction, and proper adjustment. |
| | | • | | | *d.* Inspect drive chain for damage and proper tension. Inspect winch shearpin. |
| | • | • | | | *e.* Inspect winch for operation, malfunction, and damage. Check gear case oil level. Test drag brake and automatic brake. Check winch cable for excessive wear, damage, kinks, frayed strands, and proper lubrication. |
| | | • | | | *f.* Inspect drive chain for damage and proper tension. Inspect winch shearpin. |
| | | | | | **NOTE**<br>Place hand on brake cover after testing. If cover is hot to the touch, loosen adjusting screw 1/2 turn. |

*Table 1-1. Organizational Preventive Maintenance Checks and Services (continued).*

S-Semiannually A-Annually B-Biennially

| Item No. | Interval S | Interval A | Interval B | Item To Be Inspected | Procedures |
|---|---|---|---|---|---|
| | | | | | *g.* Test automatic brake by parking vehicle on incline. Winch another vehicle up the incline and then shift winch control lever into neutral. If winched vehicle rolls backward, adjust automatic brake adjusting screws (1) and test again. |
| | | | | | TA 079360 |
| | • | | | | *h.* Check cable tensioner sheaves for proper adjustment. A 5/8 inch (16 mm.) diameter rod will fit snugly between tension sheaves (1). If rod cannot be inserted or fits loosely between sheaves, adjust cable tensioner. |
| | | | | | **NOTE**<br>Turning air chamber push rod yoke (2) to right increases distance between sheaves (when cable tensioner control valve lever is in the ON position). Turn yoke left to decrease distance between sheaves. |
| | | | | | TA 079361 |

*Table 1-1. Organizational Preventive Maintenance Checks and Services (continued).*

**S-Semiannually** **A-Annually** **B-Biennially**

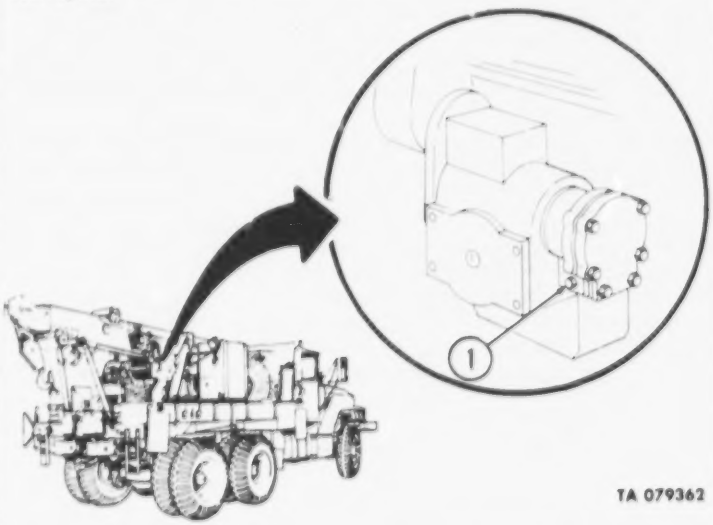
| Item No. | Interval S | Interval A | Interval B | Item To Be Inspected | Procedures |
|---|---|---|---|---|---|
| 46 | | • | | Hydraulic crane and wrecker (M816) | *a.* Inspect all hydraulic lines, hoses, valves, and their connections for looseness, wear, and leaks. Observe hoses that are split, cracked, or worn. |
| | | • | | | *b.* Operate crane through full range of movement. Observe smooth operation of pump control linkage and control levers. There should not be any binding or sticking. |
| | | • | | | *c.* Test automatic hoist drum brake for proper operation. Lift a 10,000 lb. load off ground and then place hoist control lever in neutral. The automatic brake must sustain the weight of the load. If load begins to lower, tighten automatic brake adjusting screw (1) and test again.   TA 079362 |
| | | • | | | *d.* With boom raised, inspect crane cylinder piston rods for bends and scoring. |
| | | • | | | *e.* While operating crane, observe that the fuel pump governor is maintaining 1250 + 50 rpm during hoisting operation. Notify DS maintenance if engine rpm is surging erratically. |
| | | • | | | *f.* Extend crane cable completely and look for frays, broken strands and wear. |
| | | • | | | *g.* Inspect and clean hydraulic tank swing motor and hoist crane motor breather caps. |
| 47 | | • | | Dump body and hoist (M817) | *a.* Inspect dump body for completeness of assembly. Make sure dump body is alined with frame. |
| | | • | | | *b.* Inspect dump hydraulic lines, hoses, and their fittings for leaks, splits, and wear that could cause leaks. |

*Table 1-1. Organizational Preventive Maintenance Checks and Services (continued).*

**S-Semiannually** **A-Annually** **B-Biennially**

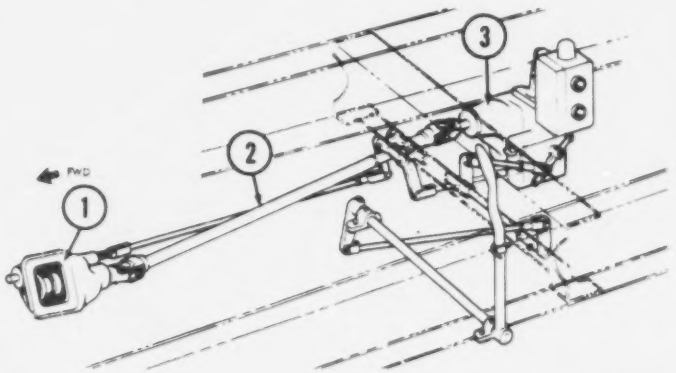
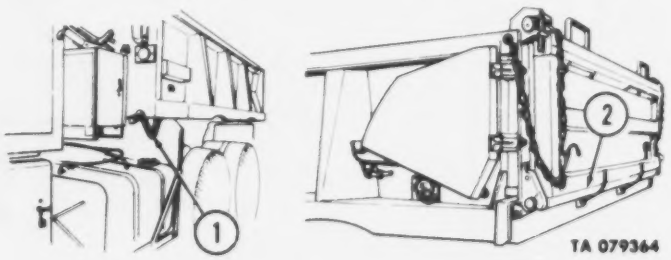
| Item No. | Interval S | Interval A | Interval B | Item To Be Inspected | Procedures |
|---|---|---|---|---|---|
| | | • | | | *c.* Inspect transmission power take-off (1), hydraulic pump drive shaft (2) and hydraulic pump (3) for mounting security and leaks.   TA 155047 |
| | | • | | | *d.* Make sure tailgate control rod hand lever (1) locks and unlocks tailgate lower latch (2). Inspect control linkage for play, wear, and serviceability.   TA 079364 |
| | | • | | | *e.* Operate dump body and observe smooth raising and lowering of body. |
| | | | • | | *f.* With dump body raised, inspect cylinder piston rods for scoring and wear. |
| | | | • | | *g.* Tighten all loose dump body mounting bolts. Torque 240 lb-ft (325 N.m.). |
| 48 | • | | | Expansible van body (M820, M820A-1,M820A2) | *a.* Make a general inspection of the van body. Inspect and operate heater, air conditioner, ventilators, dome lights and switches to insure proper operation. |
| | • | | | | *b.* Inspect electrical wiring for frays, splits, loose terminals and wear. |
| | | • | | | *c.* Expand and retract van body. Notice binding, sticking, or bends, wear, and improper lubrication of expanding or retracting mechanisms. |

*Table 1-1. Organizational Preventive Maintenance Checks and Services (continued).*

**S-Semiannually** **A-Annually** **B-Biennially**

| Item No. | Interval S | Interval A | Interval B | Item To Be Inspected | Procedures |
|---|---|---|---|---|---|
| 49 | | • | | Expansible van with liftgate | *a.* Inspect all hydraulic lines, hoses, and their fittings for cuts, splits, wear, and leaks. |
| | | • | | | *b.* Operate lift gate through full range of operation. Observe sticking, binding, hesitation, and control lever response. |
| | | • | | | *c.* With lift gate extended, inspect lift arms and support assemblies for security of mounting, completeness of assembly, and wear. |
| 50 | | | • | Fifth wheel, tractor truck & tractor wrecker truck | Inspect fifth wheel for completeness of assembly. Make sure mounting screws are tight. Torque 100-130 lb-ft (136-176 N.m.). |
| 51 | | • | | Bolster truck | Inspect bolster body assembly for damage, completeness and secureness of assembly, operation, and excessive part wear. Inspect bolster, fifth wheel, and kingpin assembly for damage, completeness, secureness of assembly operation, and excessive part wear. |
| 52 | | • | | Cargo body | Inspect cargo body and related components for damage, completeness, secureness of assembly, operation, proper stowage, and excessive part wear. |
| 53 | | • | | Bridge transporting truck | Inspect body of bridge transporting truck for damage and completeness of assembly. Inspect rear and side tiedown winches for damage, completeness of assembly, operation, and excessive part wear. Inspect tailboard roller assembly, and lead guide roller for damage, operation and completeness of assembly. Inspect floodlight assembly for damage, completeness, and secureness of assembly, and operation. |
| 54 | | • | | Intervehicular electrical cables, receptacles, and air hose lines and fittings | Inspect intervehicular electrical cable receptacle and air hose lines and fittings for damage, completeness of assembly, operation, and excessive wear. |
| 55 | | • | | Lights and accessories | Check operation of lights, (driving, blackout, turn signal, and warning lights). Check operation of horn (if tactical situation permits.). |
| | | | | | **FINAL ROAD TEST:** |
| | | | | | After all services and inspections have been completed, take vehicle on a short road test to make sure all corrections have been accomplished. Correct any defects or malfunctions that are observed during this test. |

# CHAPTER 2

# CHECKOUT, ALINEMENT, AND ADJUSTMENT

2-1. GENERAL. There are no scheduled checkout, alinement, or adjustment procedures to be done at organizational level of maintenance other than those in PMCS tables.

# CHAPTER 3

# LUBRICATION

3-1. GENERAL. Refer to LO 9-2320-260-12 for lubrication of the truck.

3-2. SPECIAL INSTRUCTIONS. There are no special lubrication instructions for trucks operating under unusual conditions other than those given in LO 9-2320-260-12.

# CHAPTER 4

# SCHEDULED MAINTENANCE OF MATERIAL USED IN CONJUNCTION WITH MAJOR ITEM

4-1. GENERAL. These preventive maintenance checks and services (PMCS) cover the special purpose kits supplied as part of the truck. The special purpose kits include the hot water heater kit, arctic winterization kit, deep water fording kit, electric brake kit, hand air brake kit, and troop seat and tarpaulin kit, and A-frame kit.

4-2. PMCS PROCEDURES. Refer to TM 9-2320-260-10 for preventive maintenance checks and services for the special purpose kits.

# APPENDIX A

# REFERENCES

A-1. PUBLICATION INDEXES AND GENERAL REFERENCE.

Indexes should be checked often for the latest changes or revisions of references given in this appendix and for new publications on materiel covered in this technical manual.

a. Military Publications Indexes.

| | |
|---|---|
| Index of Army Motion Pictures and Related Audio-Visual Aids | DA Pam 108-1 |
| Index of Administrative Publications | DA Pam 310-1 |
| Index of Blank Forms | DA Pam 310-2 |
| Index of Doctrinal Training and Organizational Publications | DA Pam 310-3 |
| Military Publications: | |
| Index of Technical Manuals, Technical Bulletins, Supply Bulletins, and Lubrication Orders | DA Pam 310-4 |
| Index of Supply Catalogs and Supply Manuals (excluding types 7, 8, and 9) | DA Pam 310-6 |
| Index of Modification Work Orders | DA Pam 310-7 |
| Common Tools and Equipment Supply Manuals | DA Supply Manuals SC 4910-95-CL-A01, SC 4910-95-CL-A02, SC 4910-95-CL-A50, SC 4910-95-CL-A63, SC 4910-95-CL-A67, SC 4910-95-CL-A68, SC 4910-95-CL-A72, SC 4910-95-CL-A73, SC 4910-95-CL-A74. SC 4910-95-CL-A31. |

b. General Reference.

| | |
|---|---|
| Authorization, Abbreviations and Brevity Codes | AR 310-50 |
| Dictionary of United States Army Terms | AR 310-25 |

A-2. FORMS.

The following forms are for this materiel (refer to DA pamphlet 310-2 for index of blank forms and to TM 38-750 for explanation of their use).

| | |
|---|---|
| Recommended Changes to Publications | DA Form 2028 |
| Maintenance Request | DA Form 2407 |
| Equipment Log Assembly (Records) | DA Form 2408 |
| Processing and Deprocessing Records for Shipment, Storage, and Issue of Vehicles and Spare Engines | DD Form 1397 |

A-3. OTHER PUBLICATIONS.

a. Vehicle.

| | |
|---|---|
| Lubrication Order | LO 9-2320-260-12 |
| Operator's Manual | TM 9-2320-260-10 Series |
| Direct Support and General Support Maintenance Manual | TM 9-2320-260-34 Series |
| Organizational Maintenance Repair Parts and Special Tool List | TM 9-2320-260-20P |
| Direct Support and General Support Maintenance Repair Parts and Special Tool List | TM 9-2320-260-34P/1 & /2 |

b. General.

| | |
|---|---|
| Rustproofing of Tactical Vehicles | TB 43-0213 |
| Chemical, Biological, and Radiological (CBR) Decontamination | TM 3-220 |
| NBC (Nuclear, Biological and Chemical) Defense | FM 21-40 |
| Rigging | TM 5-725 |
| Accident Reporting and Records | AR 385-40 |
| Basic Cold Weather Manual | FM 31-70 |
| Cooling Systems: Tactical Vehicles | TM 750-254 |
| Manual for the Wheeled Vehicle Driver | FM 21-305 |
| Army Motor Transport Units and Operations | FM 55-30 |
| Color, Marking and Camouflage Painting of Military Vehicles, Construction Equipment, and Material Handling Equipment | TB 43-0209 |

# APPENDIX B

# MAINTENANCE ALLOCATION CHART

## Section I. INTRODUCTION

B-1. GENERAL.

a. This section provides a general explanation of all maintenance and repair functions authorized at various maintenance levels.

b. The Maintenance Allocation Chart (MAC) in section II designates overall responsibility for the performance of maintenance functions on the identified end item or component. The implementation of the maintenance functions upon the end item or component will be consistent with the assigned maintenance functions.

c. Section III lists the special tools and test equipment required for each maintenance function as referenced from section II.

d. Section IV contains supplemental instructions on explanatory notes for a particular maintenance function.

B-2. MAINTENANCE FUNCTIONS.

a. Inspect. To determine the serviceability of an item by comparing its physical, mechanical and/or electrical characteristics with established standards through examination.

b. Test. To verify serviceability and detect incipient failure by measuring the mechanical or electrical characteristics of an item and comparing those characteristics with prescribed standards.

c. Service. Operations required periodically to keep an item in proper operating condition, i.e., to clean (decontaminate), to preserve, to drain, to paint, or to replenish fuel, lubricants, hydraulic fluids, or compressed air supplies.

d. Adjust. To maintain, within prescribed limits, by bringing into proper or exact position, or by setting the operating characteristics to specified parameters.

e. Aline. To adjust specified variable elements of an item to bring about optimum or desired performance.

f. Calibrate. To determine and cause corrections to be made or to be adjusted on instruments or test measuring and diagnostic equipments used in precision measurement. Consists of comparisons of two instruments, one of which is a certified standard of known accuracy, to detect and adjust any discrepancy in the accuracy of the instrument being compared.

g. Install. The act of emplacing, seating, or fixing into position an item, part, or module (component or assembly) in a manner to allow the proper functioning of an equipment or system.

h. Replace. The act of substituting a serviceable like type part, subassembly, or module (component or assembly) for an unserviceable counterpart.

i. Repair. The application of maintenance services[1] or other maintenance actions[2] to restore serviceability to an item by correcting specific damage, fault, malfunction, or failure in a part, subassembly, module (component or assembly), end item, or system.

j. Overhaul. That maintenance effort (services/actions) necessary to restore an item to a completely serviceable/operational condition as prescribed by maintenance standards (i.e., DMWR) in appropriate technical publications. Overhaul is normally the highest degree of maintenance performed by the Army. Overhaul does not normally return an item to like new condition.

k. Rebuild. Consists of those services/actions necessary for the restoration of unserviceable equipment to a like new condition in accordance with original manufacturing standards. Rebuild is the highest degree of materiel maintenance applied to Army equipment. The rebuild operation includes the act of returning to zero those age measurements (hours/miles), etc.) considered in classifying Army equipments/components.

B-3. COLUMN ENTRIES USED IN THE MAC.

a. Column 1, Group Number, Column 1 lists group numbers, the purpose of which is to identify components, assemblies, subassemblies, and modules with the next higher assembly.

b. Column 2, Component/Assembly. Column 2 contains the names of components, assemblies, subassemblies, and modules for which maintenance is authorized.

c. Column 3, Maintenance Functions. Column 3 lists the functions to be performed on the item listed in column 2. (For detailed explanation of these functions, see para B-2.)

d. Column 4, Maintenance Level. Column 4 specifies, by the listing of a "work time" figure in the appropriate subcolumn(s), the lowest level of maintenance authorized to perform the function listed in column 3. This figure represents the active time required to perform the maintenance function at the indicated level of maintenance. If the number or complexity of the tasks within the listed maintenance function vary at different maintenance levels, appropriate "work time" figures will be shown for each level. The number of manhours specified by the "work time" figure represents the average time required to restore an item (assembly, subassembly, component, module, end item, or system) to a serviceable condition under typical field operating conditions. This time includes preparation time, troubleshooting time, and quality assurance/quality control time in addition to the time required to perform the specific tasks identified for the maintenance functions authorized in the maintenance allocation chart. The symbol designations for the various maintenance levels are as follows:

| | |
|---|---|
| C | Operator or crew |
| O | Organization maintenance |
| F | Direct support maintenance |
| H | General support maintenance |
| D | Depot maintenance |

e. Column 5, Tools and Equipment. Column 5 specifies, by code, those common tool sets (not individual tools) and special tools, test, and support equipment required to perform the designated function.

[1]Services–inspect, test, service, adjust, align, calibrate, or replace.

[2]Action–welding, grinding, riveting, straightening, facing, remachining, or resurfacing.

B-4. COLUMN ENTRIES USED IN TOOL AND TEST EQUIPMENT REQUIREMENTS.

a. Column 1, Tool or Test Equipment Reference Code. The tool and test equipment reference code correlates with a maintenance function on the identified end item or component.

b. Column 2, Maintenance Level. The lowest level of maintenance authorized to use the tool or test equipment.

c. Column 3, Nomenclature. Name or identification of the tool or test equipment.

d. Column 4, National/NATO Stock Number. The National or NATO stock number of the tool or test equipment.

e. Column 5, Tool Number. The manufacturer's part number.

f. Column 6, Remarks. This column contains a letter code in alphabetic order which is keyed to the remarks contained in section IV.

B-5. EXPLANATION OF COLUMNS IN SECTION IV.

a. Reference Code. The code scheme recorded in column 6, section II.

b. Remarks. This column lists information pertinent to the maintenance function being performed as indicated on the MAC in section II.

## Section II. MAINTENANCE ALLOCATION CHART

| (1) Group Number | (2) Component/Assembly | (3) Maintenance Function | (4) Maintenance Level | | | | | (5) Tools and Equipment | (6) Remarks |
|---|---|---|---|---|---|---|---|---|---|
| | | | C | O | F | H | D | | |
| 01 | ENGINE – Cummins NHC 250 (Diesel) | | | | | | | | |
| 0100 | Engine Assembly | Test | | 0.5 | 0.5 | | | | |
| | | Service | 0.5 | 2.0 | | | | | |
| | | Replace | | | 8.0 | | | 33,98 | |
| | | Repair | | | 8.0 | | | 2,17,22,30 | |
| | | Overhaul | | | | | 40.0 | 2,17,22,30, 33,50,52,97, 98,99 | |
| | Mounting, Engine | Replace | | | 2.0 | | | 33 | |
| | Bracket, Engine Mounting | Replace | | | 2.0 | | | 33 | |
| 0101 | Crankcase, Block Cylinder Head | | | | | | | | |
| | Head Cylinder Assembly | Replace | | | 4.0 | | | 97,98,99 | |
| | | Repair | | | 5.0 | | | 41,52 | |
| | Sleeve, Cylinder | Replace | | | | 2.0 | | 20,28,29,99 | |
| 0102 | Crankshaft | | | | | | | 97,98,99 | |
| | Bearings, Crankshaft | Replace | | | | 6.5 | | 45,55 | |
| | Crankshaft | Replace | | | | 5.0 | | 5,45,55 | |
| | | Repair | | | | 6.0 | | 5,45,55 | |
| | Damper, Vibration | Replace | | | 6.0 | | | 55 | |
| 0103 | Flywheel Assembly | | | | | | | 97,98,99 | |
| | Flexplate-ring Gear | Replace | | | 1.0 | | | 9 | |
| | Housing | Replace | | | 4.0 | | | 1,9,99 | |
| 0104 | Pistons, Connecting Rods | | | | | | | 97,98,99 | |
| | Bearings, Connecting Rod | Replace | | | | 1.0 | | 2,4,5 | |
| | Piston | Replace | | | | 2.0 | | | |
| | Pin, Piston | Replace | | | | 1.0 | | 27 | |
| | Rings, Piston | Replace | | | | 1.0 | | 17,27 | |
| | Rod, Connecting | Replace | | | | 2.0 | | 2,4,5,8 | |
| | | Repair | | | | 0.5 | | 37 | |

## Section II. MAINTENANCE ALLOCATION CHART

| (1) Group Number | (2) Component/Assembly | (3) Maintenance Function | (4) Maintenance Level | | | | | (5) Tools and Equipment | (6) Remarks |
|---|---|---|---|---|---|---|---|---|---|
| | | | C | O | F | H | D | | |
| 0105 | Valves, Camshaft and Timing System | | | | | | | 97,98,99 | |
| | Guide, Valve | Replace | | | | 0.5 | | 43 | |
| | Spring, Valve | Replace | | | 0.5 | | | 24,51,52 | |
| | Valves, Intake and Exhaust | Replace<br>Repair | | | 1.5<br>0.5 | | | 51<br>51,52 | |
| | Arm, Valve Rocker Intake/Exhaust | Adjust<br>Replace<br>Repair | | | 0.5<br>1.5<br>0.5 | | | 24<br>24<br>24 | |
| | Rod, Push Intake/Exhaust/ Injector | Replace | | | 0.5 | | | 24,25 | |
| | Cam Follower | Replace<br>Repair | | | | 0.5<br>0.5 | | | |
| | Lever, Injector Rocker | Adjust<br>Replace | | | 0.5<br>1.5 | | | 4,24,25 | |
| | Shaft Assembly Rocker Arm | Replace | | | 2.0 | | | 34 | |
| | Bearing, Camshaft | Replace | | | | 4.0 | | 18,30,31,47 | |
| | Camshaft | Replace | | | | 1.5 | | 30,47 | |
| | Gears, Timing | Replace | | | | 2.5 | | 30 | |
| | Seal, Timing Gear Cover | Replace | | | 4.0 | | | | |
| 0106 | Engine Lubrication System | | | | | | | 97,98,99 | |
| | Pump, Oil | Replace<br>Repair | | | | 4.0<br>4.0 | | | |
| | Pan, Oil | Replace | | | 4.2 | | | | |
| | Element, Oil Filter | Replace | | 0.5 | | | | | |
| | Filter, Oil | Replace | | 0.5 | | | | | |
| | Element, Oil Cooler | Replace | | | 2.0 | | | | |
| 0108 | Manifolds | | | | | | | | |
| | Manifold, Intake and Exhaust | Replace | | | 3.0 | | | | |

## Section II. MAINTENANCE ALLOCATION CHART

| (1) Group Number | (2) Component/Assembly | (3) Maintenance Function | (4) Maintenance Level | | | | | (5) Tools and Equipment | (6) Remarks |
|---|---|---|---|---|---|---|---|---|---|
| | | | C | O | F | H | D | | |
| 0109 | Accessory Driving Mechanisms | | | | | | | | |
| | Pulley, Accessory Drive | Replace | | | 2.0 | | | | |
| 02 | CLUTCH | | | | | | | | |
| 0200 | Clutch Assembly | | | | | | | 97,98,99 | |
| | Bearing, Pilot | Replace | | | 4.5 | | | | |
| | Plate, Pressure | Adjust | | | 4.0 | | | | |
| | | Replace | | | 1.0 | | | | |
| | Disk, Clutch | Replace | | | 4.5 | | | | |
| 0202 | Clutch Release Mechanism | | | | | | | 97,98,99 | |
| | Bearing, Release | Replace | | | 4.2 | | | | |
| | Linkage, Clutch Pedal | Service | 0.2 | | | | | | |
| | | Adjust | | 0.5 | | | | | |
| | | Replace | | 1.1 | 1.0 | | | | |
| | | Repair | | 1.0 | | | | | |
| 03 | FUEL SYSTEM | | | | | | | | |
| 0301 | Fuel Injectors | Test | | | | 2.0 | | 97,98,99 | |
| | | Replace | | | 4.0 | | | | |
| | | Repair | | | | 6.0 | | 6,7,10,13 | |
| | | Calibrate | | | | 2.0 | | | |
| 0302 | Fuel Pumps | | | | | | | | |
| | Pump, Fuel Supply | Test | | | | 2.0 | | | |
| | | Replace | | | 2.0 | | | 16 | |
| | | Repair | | | | 4.0 | | 10,14 | |
| | | Calibrate | | | | 2.0 | | | |
| 0304 | Cleaner, Air | Inspect | | 0.5 | | | | 97,98,99 | |
| | | Service | | 1.0 | | | | | |
| | | Replace | | 0.5 | | | | | |
| | | Repair | | 0.5 | | | | | |
| | Lines and Connections, Vent | Replace | | 1.0 | | | | | |
| | Indicator, Air Cleaner | Replace | | 0.5 | | | | | |
| | Hoses and Clamps | Replace | | 0.5 | | | | | |

## Section II. MAINTENANCE ALLOCATION CHART

| (1) Group Number | (2) Component/Assembly | (3) Maintenance Function | (4) Maintenance Level | | | | | (5) Tools and Equipment | (6) Remarks |
|---|---|---|---|---|---|---|---|---|---|
| | | | C | O | F | H | D | | |
| 0306 | Tanks, Lines, Fittings | | | | | | | 97,98,99 | |
| | Tank, Fuel | Replace | | 1.0 | | | | | |
| | | Repair | | | 1.0 | | | | |
| | Lines and Fittings, Fuel | Replace | | 1.5 | 1.5 | | | | |
| | | Repair | | | 2.0 | | | | |
| | Valve, Fuel Selector | Replace | | 1.0 | | | | | |
| | Lines and Fittings, Fuel Pump to Engine | Replace | | 1.0 | | | | | |
| | Valve, Emergency Fuel | Replace | | | 0.5 | | | | |
| 0309 | Fuel Filters | | | | | | | 97,98,99 | |
| | Filter, Fuel Water Separator | Service | 0.1 | | | | | | |
| | | Replace | | 0.5 | | | | | |
| | Element, Fuel Filter Water Separator | Replace | | 0.5 | | | | | |
| 0311 | Engine Starting Aids | | | | | | | 97,98,99 | |
| | Aids, Engine Starting | | | | | | | | |
| | Lines and Fittings | Replace | | 1.0 | | | | | |
| | Pump, Hand Primer | Replace | | 1.0 | | | | | |
| | Nozzle, Cold Start | Replace | | 1.0 | | | | | |
| | Plug, Glow | Test | | 0.2 | | | | | |
| | | Replace | | 0.5 | | | | | |
| | Harness | Test | | 0.2 | | | | | |
| | | Replace | | 1.0 | | | | | |
| | | Repair | | 1.5 | | | | | |
| | Resistor, Preheater and Relay | Test | | 0.2 | | | | | |
| | | Replace | | 0.5 | | | | | |
| 0312 | Accelerator, Throttle Controls | | | | | | | 97,98,99 | |
| | Control, Accelerator and Throttle Control Linkage | Inspect | | 0.2 | | | | | |
| | | Adjust | | 0.5 | | | | | |
| | | Replace | | 1.0 | | | | | |
| | | Repair | | 1.0 | | | | | |

## Section II. MAINTENANCE ALLOCATION CHART

| (1) Group Number | (2) Component/Assembly | (3) Maintenance Function | (4) Maintenance Level | | | | | (5) Tools and Equipment | (6) Remarks |
|---|---|---|---|---|---|---|---|---|---|
| | | | C | O | F | H | D | | |
| 04 | EXHAUST SYSTEM | Inspect | | 0.2 | | | | | |
| 0401 | Muffler and Pipes | | | | | | | 97,98,99 | |
| | Pipe, Exhaust and Tail | Replace | | 2.0 | | | | | |
| | Muffler | Replace | | 2.0 | | | | | |
| | Shield, Verticle Exhaust | Replace | | 1.0 | | | | | |
| 05 | COOLING SYSTEM | Inspect | 0.3 | | | | | | |
| 0501 | Radiator | Test | | 0.5 | | | | 97,98,99 | |
| | | Service | 0.3 | | | | | | |
| | | Replace | | 2.0 | | | | | |
| | | Repair | | | 3.0 | | | | |
| | Hoses, Radiator | Replace | | 0.5 | | | | | |
| 0502 | Shroud, Radiator Fan | Replace | | 1.0 | | | | 97,98,99 | |
| 0503 | Water Manifold, Headers, Thermostats and Housing Gasket | | | | | | | 97,98,99 | |
| | Thermostat | Replace | | 1.0 | | | | | |
| | Water Manifold and Headers | Replace | | | 2.0 | | | | |
| 0504 | Water Pump | Replace | | | 3.0 | | | 97,98,99 | |
| | | Repair | | | 1.5 | | | | |
| | Belt, Water Pump | Inspect | 0.1 | | | | | | |
| | | Adjust | | 0.5 | | | | | |
| | | Replace | | 1.5 | | | | | |
| 0505 | Fan Assembly | | | | | | | 97,98,99 | |
| | Belt, Fan Assembly | Inspect | 0.1 | | | | | | |
| | | Adjust | | 0.3 | | | | | |
| | | Replace | | 0.5 | | | | | |
| | Fan Assembly | Replace | | 1.0 | | | | | |
| 06 | ELECTRICAL SYSTEM | | | | | | | | |
| 0601 | Alternator | Test | | 0.5 | | | | 97,98,99 | |
| | | Replace | | 1.0 | | | | | |
| | | Repair | | | 4.0 | | | | |

## Section II. MAINTENANCE ALLOCATION CHART

| (1) Group Number | (2) Component/Assembly | (3) Maintenance Function | (4) Maintenance Level | | | | | (5) Tools and Equipment | (6) Remarks |
|---|---|---|---|---|---|---|---|---|---|
| | | | C | O | F | H | D | | |
| 0601 – cont | Belt, Alternator | Inspect | 0.1 | | | | | | |
| | | Adjust | | 0.2 | | | | | |
| | | Replace | | 0.3 | | | | | |
| 0603 | Starter | Test | | 0.5 | | | | 97,98,99 | |
| | | Replace | | 1.5 | | | | | |
| | | Repair | | | 3.0 | | | | |
| | Solenoid, Starter | Test | | 0.5 | | | | | |
| | | Replace | | | 1.0 | | | | |
| | | Repair | | | 1.0 | | | | |
| 0606 | Engine Safety Controls | | | | | | | 97,98,99 | |
| | Valve, Fuel Shutoff Elec. | Replace | | | 0.7 | | | | |
| | Switch, Protective Lockout | Test | | 0.5 | | | | | |
| | | Replace | | 0.5 | | | | | |
| 0607 | Instrument or Engine Control Panel | | | | | | | 97,98,99 | |
| | Switches and Circuit Breakers | Test | | 0.7 | | | | | |
| | | Replace | | 1.0 | | | | | |
| | Instruments and Gages | Test | | 0.2 | | | | | |
| | | Replace | | 1.0 | | | | | |
| | Switch, Ignition and Starter | Test | | 0.2 | | | | | |
| | | Replace | | 0.5 | | | | | |
| 0608 | Miscellaneous Items | | | | | | | 97,98,99 | |
| | Control, Directional Turn Indicator | Test | | 0.2 | | | | | |
| | | Replace | | 0.5 | | | | | |
| | | Repair | | 0.1 | | | | | |
| | Flasher | Test | | 0.2 | | | | | |
| | | Replace | | 0.5 | | | | | |
| | Switch, Light | Replace | | 0.5 | | | | | |
| 0609 | Lights | Adjust | | 0.2 | | | | 97,98,99 | |
| | | Replace | | 0.5 | | | | | |
| | | Repair | | 0.1 | | | | | |

## Section II. MAINTENANCE ALLOCATION CHART

| (1) Group Number | (2) Component/Assembly | (3) Maintenance Function | (4) Maintenance Level | | | | | (5) Tools and Equipment | (6) Remarks |
|---|---|---|---|---|---|---|---|---|---|
| | | | C | O | F | H | D | | |
| 0610 | Sending Units and Warning Switches | | | | | | | 97,98,99 | |
| | Unit, Sending | Test | | 0.2 | | | | | |
| | | Replace | | 0.3 | | | | | |
| | Switch, Stoplight | Test | | 0.3 | | | | | |
| | | Replace | | 0.5 | | | | | |
| | Buzzer, Warning | Test | | 0.2 | | | | | |
| | | Replace | | 0.3 | | | | | |
| 0611 | Horn | Test | | 0.2 | | | | 97,98,99 | |
| | | Replace | | 0.5 | | | | | |
| | | Repair | | 1.0 | | | | | |
| | Switch, Horn | Test | | 0.2 | | | | | |
| | | Replace | | 0.2 | | | | | |
| | | Repair | | 0.5 | | | | | |
| | Brush, Contact, Horn (Lower Steering Column) | Replace | | 0.5 | | | | | |
| 0612 | Batteries, Storage | Inspect | 0.1 | | | | | 97,98,99 | |
| | | Test | | 0.5 | | | | | |
| | | Service | | 0.2 | | | | | |
| | | Replace | | 0.5 | | | | | |
| | | Repair | | | | 4.0 | | | A |
| | Support | Replace | | 1.0 | | | | | |
| | Cables, Battery | Replace | | 0.8 | | | | | |
| | | Repair | | 0.5 | | | | | |
| | Box, Battery | Inspect | 0.1 | | | | | | |
| | | Service | | 1.5 | | | | | |
| | | Replace | | 1.8 | | | | | |
| | | Repair | | 1.5 | | | | | |
| | Slave Receptacle | Replace | | 0.7 | | | | | |
| | | Repair | | 0.5 | | | | | |
| 0613 | Hull or Chassis Wiring Harness | Test | | 0.5 | | | | 97,98,99 | |
| | | Replace | | | 4.5 | | | | |
| | | Repair | | 1.0 | | | | | |
| | Receptacle, Trailer Coupling | Replace | | 0.2 | | | | | |
| | | Repair | | 0.5 | | | | | |

## Section II. MAINTENANCE ALLOCATION CHART

| (1) Group Number | (2) Component/Assembly | (3) Maintenance Function | (4) Maintenance Level | | | | | (5) Tools and Equipment | (6) Remarks |
|---|---|---|---|---|---|---|---|---|---|
| | | | C | O | F | H | D | | |
| 07 | TRANSMISSION | | | | | | | | |
| 0701 | Transmission Assembly | Service | 0.1 | 0.2 | | | | 97,98,99 | |
| | | Replace | | | 4.2 | | | 69,70 | |
| | | Repair | | | | 6.2 | | 69,70,99 | |
| | | Overhaul | | | | | 10.5 | 71,100 | |
| | Transmission Shaft | | | | | | | 97,98,99 | |
| | Seal, Input, Shaft | Replace | | | 1.5 | | | 71 | |
| | Seal, Output Shaft | Replace | | | 1.5 | | | 71 | |
| | Bearing, Input Shaft | Replace | | | | 2.6 | | | |
| | Shaft, Output | Replace | | | | 2.6 | | | |
| | Gear, Bearing and Synchronizers | Replace | | | | 3.6 | | 65 | |
| | Countershaft | Replace | | | | 0.6 | | | |
| | Shaft, Reverse Idler | Replace | | | | 2.6 | | | |
| | Gears and Bearings | Replace | | | | 2.6 | | 65 | |
| 0704 | Transmission Top Cover Assembly | | | | | | | 97,98,99 | |
| | Cover and Lever Assembly | Replace | | | 0.5 | | | | |
| | Shifter Housing | Repair | | | 0.9 | | | | |
| | Housing, Shifter Assembly | Replace | | | 1.0 | | | | |
| | | Repair | | | 1.8 | | | | |
| | Shifter, Shaft and Forks | Replace | | | 0.6 | | | | |
| | Lever, Gearshifter | Replace | | | 0.4 | | | | |
| 08 | TRANSFER AND FINAL DRIVE ASSEMBLIES | | | | | | | | |
| 0801 | Power Transfer Assembly | Service | 0.1 | 0.5 | | | | 97,98,99 | |
| | | Replace | | | 4.6 | | | 71 | |
| | | Repair | | | | 4.0 | | 65,66,67 | |
| | | Overhaul | | | | | 9.5 | 65,67,68,71, 79,82,83 | |
| | Seal, Input Shaft | Replace | | | | 1.5 | | 70,71 | |
| | Shaft, Input | Replace | | | | 2.6 | | 68 | |

## Section II. MAINTENANCE ALLOCATION CHART

| (1) Group Number | (2) Component/Assembly | (3) Maintenance Function | (4) Maintenance Level | | | | | (5) Tools and Equipment | (6) Remarks |
|---|---|---|---|---|---|---|---|---|---|
| | | | C | O | F | H | D | | |
| 0801 – cont | Bearings and Gears | Replace | | | | 2.6 | | 68,71 | |
| | Shaft, Intermediate | Replace | | | | 2.6 | | 68,71 | |
| | Seals, Output Rear Axle | Replace | | | | 1.3 | | 82,83 | |
| 0802 | Clutch and Clutch Controls | | | | | | | 97,98,99 | |
| | Seals, Output Front Cover | Replace | | | | 1.3 | | 70,79 | |
| | Shaft, Output Front Axle | Replace | | | | 1.3 | | 70,71,79 | |
| | Bearings, Gears and Clutch | Replace | | | | 3.0 | | 65,68,99 | |
| | Shaft, Output Rear Axle | Replace | | | | 1.3 | | 82,83,99 | |
| 0803 | Gear Shift and Controls | | | | | | | 97,98,99 | |
| | Controls and Linkage, Transfer | Adjust<br>Replace<br>Repair | | | 0.3<br>1.5<br>1.0 | | | 66,67,68<br>66,67,68<br>66,67,68 | |
| | Fork, Shifter Shaft | Replace | | | | 4.0 | | | |
| | Seals | Replace | | | | 2.0 | | 91 | |
| | Shaft, Shifter | Replace | | | | 4.0 | | | |
| | Cylinder Air Shift | Replace | | | 2.0 | | | | |
| | Lines and Connections | Replace | | | 1.0 | | | | |
| | Air Shift | Repair | | | 1.0 | | | | |
| | Valve, Breather | Service<br>Replace | 0.1 | 0.5 | | | | | |
| 09 | PROPELLER AND PROPELLER SHAFTS | | | | | | | | |
| 0900 | Propeller Shafts | Service<br>Replace | | 0.5<br>1.5 | | | | 97,98,99<br>70 | |
| | Joint, Universal | Service<br>Replace<br>Repair | | 0.3<br>1.5<br>1.0 | | | | | |
| | Bearing, Center | Replace | | 1.5 | | | | | |

## Section II. MAINTENANCE ALLOCATION CHART

| (1) Group Number | (2) Component/Assembly | (3) Maintenance Function | (4) Maintenance Level | | | | | (5) Tools and Equipment | (6) Remarks |
|---|---|---|---|---|---|---|---|---|---|
| | | | C | O | F | H | D | | |
| 10 | FRONT AXLE | | | | | | | | |
| 1000 | Front Axle Assembly | Service | | 1.0 | | | | 97,98,99 | |
| | | Replace | | | 5.0 | | | | |
| | | Repair | | | | 5.0 | | 82,88 | |
| | | Overhaul | | | | | 10.0 | 82,88 | |
| | Valve, Breather | Service | 0.1 | | | | | | |
| | | Replace | | 0.5 | | | | | |
| 1002 | Differential | Service | | 0.5 | | | | 97,98,99 | |
| | | Replace | | | 7.0 | | | | |
| | | Repair | | | | 4.0 | | | |
| | | Overhaul | | | | 8.0 | | | |
| | Gears, Differential | Replace | | | | 2.0 | | | |
| | Bearings | Replace | | | | 2.0 | | 80 | |
| | Seal Pinion | Replace | | | 2.0 | | | 80 | |
| | Flange, Drive | Replace | | | 2.0 | | | | |
| 1004 | Steering Mechanism | | | | | | | 97,98,99 | |
| | Arms and Flanges | Replace | | | 2.5 | | | | |
| | Shaft, Front Axle | Replace | | | 4.0 | | | | |
| | Bearings and Seals | Replace | | | 2.0 | | | | |
| | Boot, Flange | Replace | | 0.7 | | | | | |
| | Knuckle | Service | | 0.2 | | | | | |
| | | Replace | | | 2.5 | | | | |
| | | Repair | | | 2.0 | | | | |
| | Sleeve, Bearing | Replace | | | 1.5 | | | | |
| 11 | REAR AXLE | | | | | | | | |
| 1100 | Rear Axle Assembly | Service | | 0.5 | | | | 97,98,99 | |
| | | Replace | | | 4.0 | | | | |
| | | Repair | | | 4.0 | | | 83 | |
| | | Overhaul | | | | | 14.0 | | |
| | Valve, Breather | Service | 0.2 | | | | | | |
| | | Replace | | 0.5 | | | | | |

## Section II. MAINTENANCE ALLOCATION CHART

| (1) Group Number | (2) Component/Assembly | (3) Maintenance Function | (4) Maintenance Level | | | | | (5) Tools and Equipment | (6) Remarks |
|---|---|---|---|---|---|---|---|---|---|
| | | | C | O | F | H | D | | |
| 1102 | Differential | | | | | | | 97,98,99 | |
| | Shaft, Rear Axle | Replace | | 1.5 | | | | | |
| | Carrier, Differential | Service | | 0.5 | | | | | |
| | | Replace | | | 7.5 | | | | |
| | | Repair | | | | 4.0 | | | |
| | | Overhaul | | | | | 8.0 | | |
| | Gears | Replace | | | | 2.0 | | | |
| | Bearings | Replace | | | | 2.0 | | | |
| | Seal, Pinion | Replace | | | 2.0 | | | | |
| | Flange, Drive | Replace | | | 2.0 | | | | |
| 12 | BRAKES | | | | | | | | |
| 1201 | Handbrake | | | | | | | 97,98,99 | |
| | Drum, Hand Brake | Replace | | 1.5 | | | | | |
| | | Repair | | | 1.0 | | | | |
| | Shoes, Hand Brake | Adjust | | 0.5 | | | | | |
| | | Replace | | 2.0 | | | | | |
| | | Repair | | | 1.5 | | | | |
| | Linkage, Hand Brake | Service | 0.1 | | | | | | |
| | | Adjust | | 0.5 | | | | | |
| | | Replace | | 1.0 | | | | | |
| 1202 | Service Brakes | | | | | | | 97,98,99 | |
| | Shoes, Service Brake | Adjust | | 1.0 | | | | | |
| | | Replace | | 3.0 | | | | | |
| | | Repair | | | 2.0 | | | | |
| 1204 | Hydraulic Brake System | | | | | | | 97,98,99 | |
| | Master Cylinder | Service | 0.1 | | | | | | |
| | | Replace | | 2.0 | | | | | |
| | Cylinder Wheel | Replace | | 2.0 | | | | | |
| | Cylinder Air Hydraulic | Service | | 0.5 | | | | | |
| | | Replace | | 0.9 | | | | | |
| | | Repair | | | 1.5 | | | | |
| | Lines and Fittings | Replace | | 3.5 | | | | | B |

## Section II. MAINTENANCE ALLOCATION CHART

| (1) Group Number | (2) Component/Assembly | (3) Maintenance Function | (4) Maintenance Level | | | | | (5) Tools and Equipment | (6) Remarks |
|---|---|---|---|---|---|---|---|---|---|
| | | | C | O | F | H | D | | |
| 1206 | Mechanical Brake System | | | | | | | 97,98,99 | |
| | Brake Pedal Pad | Replace | | 1.7 | | | | | |
| | Brake Pedal | Replace | | 0.2 | | | | | |
| 1208 | Air Brake System | | | | | | | 97,98,99 | |
| | Lines and Fittings Air System | Replace<br>Repair | | 0.5<br>0.6 | | | | | B |
| | Valves and Fittings Air System | Replace | | 0.1 | | | | | |
| | Reservoir, Air/Secondary | Service<br>Replace | 0.2 | <br>0.8 | | | | | |
| | Valve, Safety | Replace | | 0.5 | | | | | |
| | Hose, Trailer Brake | Replace<br>Repair | | 0.3<br>0.4 | | | | | |
| 1209 | Air Compressor Assembly | | | | | | | 97,98,99 | |
| | Governor, Air | Adjust<br>Replace | | 0.4<br>0.3 | | | | | |
| | Compressor, Air | Test<br>Replace | | 0.5 | <br>3.0 | | | | |
| | Valve, Unloader | Replace | | | 0.2 | | | | |
| | Lines and Fittings | Replace<br>Repair | | 0.5<br>0.6 | | | | | |
| 1211 | Trailer Brake Connections and Controls | | | | | | | 97,98,99 | |
| | Connections and Fittings Trailer Brake | Replace<br>Repair | | 0.4<br>0.2 | | | | | |
| | Coupling, Trailer Brake | Replace<br>Repair | | 0.4<br>1.0 | | | | | |
| | Valve, Hand Control | Replace<br>Repair | | 1.0<br>1.0 | | | | | |

## Section II. MAINTENANCE ALLOCATION CHART

| (1) Group Number | (2) Component/Assembly | (3) Maintenance Function | (4) Maintenance Level | | | | | (5) Tools and Equipment | (6) Remarks |
|---|---|---|---|---|---|---|---|---|---|
| | | | C | O | F | H | D | | |
| 13 | WHEELS, HUBS AND DRUMS | | | | | | | | |
| 1311 | Wheel Assembly | | | | | | | 97,98,99 | |
| | Bearings | Service | | 2.0 | | | | | |
| | | Adjust | | 0.5 | | | | | |
| | | Replace | | 1.5 | | | | | |
| | Drum, Service Brake | Replace | | 1.5 | | | | | |
| | | Repair | | | 2.0 | | | | |
| | Hub, Wheel | Replace | | 1.5 | | | | | |
| | | Repair | | 1.0 | | | | | |
| | Wheel/Tire Assembly | Replace | | 1.0 | | | | | |
| | Ring Retaining, Tire | Replace | | 0.1 | | | | | |
| | Seals, Hub | Replace | | 2.5 | | | | | |
| 1313 | Tires, Tubes | | | | | | | 97,98,99 | |
| | Tires | Inspect | 0.2 | | | | | | |
| | | Service | 0.1 | | | | | | |
| | | Replace | | 1.8 | | | | | |
| | | Repair | | 2.0 | | | | | D |
| | | Rebuild | | | | | 2.0 | | |
| | Tubes | Replace | | 0.5 | | | | | |
| | | Repair | | 1.0 | | | | | D |
| 14 | STEERING | | | | | | | | |
| 1401 | Mechanical Steering Gear Assembly | | | | | | | 97,98,99 | |
| | Link, Front Drag | Service | | 0.2 | | | | | |
| | | Adjust | | 0.5 | | | | | |
| | | Replace | | 1.0 | | | | | |
| | | Repair | | 1.0 | | | | | |
| | Rod, Tie Assembly | Service | | 0.2 | | | | | |
| | | Adjust | | 0.5 | | | | | |
| | | Replace | | 1.5 | | | | | |
| | | Repair | | 1.5 | | | | | |
| | Arm, Pitman Steering | Replace | | 1.0 | | | | | |

## Section II. MAINTENANCE ALLOCATION CHART

| (1) Group Number | (2) Component/Assembly | (3) Maintenance Function | (4) Maintenance Level | | | | | (5) Tools and Equipment | (6) Remarks |
|---|---|---|---|---|---|---|---|---|---|
| | | | C | O | F | H | D | | |
| 1401 – cont | Column, Steering | Replace | | | 1.5 | | | | |
| | | Repair | | | 2.0 | | | | |
| | Wheel, Steering | Replace | | 1.0 | | | | | |
| 1407 | Power Steering Gear Assembly | Service | | 0.5 | | | | 97,98,99 | |
| | | Adjust | | | 0.5 | | | | |
| | | Replace | | | 3.0 | | | | |
| | | Repair | | | 2.5 | | | | |
| | | Overhaul | | | | | 6.0 | | |
| 1410 | Hydraulic Pump | Service | 0.1 | | | | | 97,98,99 | |
| | | Replace | | | 1.5 | | | | |
| | | Repair | | | 1.0 | | | | |
| | | Inspect | 0.1 | | | | | | |
| | Belt, Hydraulic Pump | Adjust | | 0.2 | | | | | |
| | | Replace | | 0.5 | | | | | |
| 1411 | Lines and Fittings, Power Steering | Replace | | 0.5 | | | | 97,98,99 | |
| 1412 | Hydraulic Cylinder | | | | | | | 97,98,99 | |
| | Cylinder, Power and Control Valve Assembly | Adjust | | 0.5 | | | | | |
| | | Replace | | 1.5 | | | | | |
| | | Repair | | | 2.0 | | | | |
| 15 | FRAME, TOWING ATTACHMENTS AND DRAWBARS | | | | | | | | |
| 1501 | Frame Assembly | Inspect | 0.2 | | | | | 97,98,99 | |
| | | Repair | | | 2.5 | | | | E |
| | Bumper, Front | Replace | | 2.0 | | | | | |
| | Brackets, Frame | Replace | | 1.0 | | | | | |
| | Shackles, Lifting | Replace | | 1.0 | | | | | |
| 1503 | Pintle | Service | | 0.1 | | | | 97,98,99 | |
| | | Replace | | 0.5 | | | | | |
| 1504 | Spare Wheel Carrier | Inspect | 0.1 | | | | | 97,98,99 | |
| | | Replace | | 1.0 | | | | | |
| | | Repair | | 1.0 | | | | | |

## Section II. MAINTENANCE ALLOCATION CHART

| (1) Group Number | (2) Component/Assembly | (3) Maintenance Function | (4) Maintenance Level | | | | | (5) Tools and Equipment | (6) Remarks |
|---|---|---|---|---|---|---|---|---|---|
| | | | C | O | F | H | D | | |
| 1506 | Fifth Wheel | Inspect | 0.2 | | | | | 97,98,99 | |
| | | Service | | 0.5 | | | | | |
| | | Replace | | 2.5 | | | | | |
| | | Repair | | | 4.0 | | | | |
| 16 | SPRINGS AND SHOCK ABSORBERS | | | | | | | | |
| 1601 | Springs | | | | | | | 97,98,99 | |
| | Front Spring | Replace | | 3.0 | | | | | |
| | | Repair | | 2.0 | | | | | |
| | Shackle and Bolts | Replace | | 1.0 | | | | | |
| | Spring, Rear and Seat | Replace | | 4.0 | | | | | |
| | | Repair | | 2.0 | | | | | |
| 1604 | Shock Absorber Equipment | | | | | | | 97,98,99 | |
| | Absorber, Front Shock | Replace | | 0.5 | | | | | |
| 1605 | Torque Rods | | | | | | | 97,98,99 | |
| | Rod, Rear Torque | Replace | | 1.5 | | | | | |
| 18 | BODY, HOOD AND CAB | Inspect | 0.1 | | | | | | |
| 1801 | Body, Hood and Cab | | | | | | | 97,98,99 | |
| | Doors | Service | | 0.1 | | | | | |
| | | Adjust | | 0.5 | | | | | |
| | | Replace | | 1.0 | | | | | |
| | | Repair | | 1.0 | 1.0 | | | | |
| | Cab | Repair | | | 6.0 | | | | |
| | Hood | Adjust | | 0.5 | | | | | |
| | | Replace | | | 2.0 | | | | |
| | | Repair | | | 1.0 | | | | |
| | Guard, Radiator | Replace | | 0.3 | | | | | |
| | | Repair | | 0.5 | | | | | |
| 1802 | Fenders, Running Boards, Windshield | | | | | | | 97,98,99 | |
| | Fenders | Replace | | | 2.0 | | | | |
| | | Repair | | | 1.0 | | | | |

## Section II. MAINTENANCE ALLOCATION CHART

| (1) Group Number | (2) Component/Assembly | (3) Maintenance Function | (4) Maintenance Level | | | | | (5) Tools and Equipment | (6) Remarks |
|---|---|---|---|---|---|---|---|---|---|
| | | | C | O | F | H | D | | |
| 1802 – cont | Running Board | Replace | | | 2.0 | | | | |
| | | Repair | | | 3.0 | | | | |
| | Frame Assembly, Windshield, with glass | Inspect | 0.1 | | | | | | |
| | | Replace | | 2.0 | | | | | |
| | | Repair | | | 1.5 | | | | |
| 1806 | Upholstery, Seats and Carpets | | | | | | | 97,98,99 | |
| | Seats, cushion | Replace | | 1.0 | | | | | |
| | | Repair | | | 1.0 | | | | |
| | Seat Assembly | Replace | | 2.0 | | | | | |
| | | Repair | | 1.0 | 4.0 | | | | |
| 1808 | Stowage Racks, Boxes, Straps | | | | | | | 97,98,99 | |
| | Boxes | Replace | | 1.0 | | | | | |
| | Straps, Brackets | Replace | | 1.0 | | | | | |
| | | Repair | | 1.0 | | | | | |
| 1810 | Cargo Body | | | | | | | 97,98,99 | |
| | Body, Cargo | Inspect | 0.2 | | | | | | |
| | | Repair | | | 10.0 | | | | |
| | Gate, Tail | Service | 0.1 | | | | | | |
| | | Replace | | 1.0 | | | | | |
| | | Repair | | | 2.0 | | | | |
| | Racks | Replace | | 1.0 | | | | | |
| | | Repair | | 1.0 | | | | | |
| | Seat, Troop | Replace | | 1.0 | | | | | |
| | | Repair | | 1.0 | | | | | |
| 20 | HOIST, WINCH, CAPSTAN, WINDLASS, POWER CONTROL UNIT, AND POWER TAKE-OFF | | | | | | | | |
| 2001 | Winch, Front | Inspect | 0.1 | | | | | 97,98,99 | |
| | | Service | | 0.5 | | | | | |
| | | Adjust | | 0.5 | | | | | |
| | | Replace | | 3.0 | | | | | |
| | | Repair | | | 4.0 | | | | |
| | Shear Pin | Replace | 0.5 | | | | | | |

## Section II. MAINTENANCE ALLOCATION CHART

| (1) Group Number | (2) Component/Assembly | (3) Maintenance Function | (4) Maintenance Level | | | | | (5) Tools and Equipment | (6) Remarks |
|---|---|---|---|---|---|---|---|---|---|
| | | | C | O | F | H | D | | |
| 2001 – cont | Band, Automatic | Adjust | | 0.5 | | | | | |
| | | Replace | | | 2.0 | | | | |
| | Cable, Winch | Inspect | 0.5 | | | | | | |
| | | Service | 0.5 | | | | | | |
| | | Replace | | 1.0 | | | | | |
| | | Repair | | 0.5 | | | | | |
| | Disk, Brake | Adjust | | | 1.0 | | | | |
| | | Replace | | | 2.0 | | | | |
| | Universal Joint | Service | .2 | | | | | | |
| | | Replace | | 1.0 | | | | | |
| 2004 | Power Take-off Assembly | Replace | | | 1.0 | | | 97,98,99 | |
| | | Repair | | | 4.0 | | | | |
| | Controls and Linkage, Power Takeoff | Adjust | | 0.2 | | | | | |
| | | Replace | | 0.5 | | | | | |
| | | Repair | | | 0.5 | | | | |
| 22 | BODY CHASSIS OR HULL, AND ACCESSORY ITEMS | | | | | | | | |
| 2201 | Canvas, Rubber or Plastic Items | | | | | | | 97,98,99 | |
| | Bows | Inspect | 0.1 | | | | | | |
| | | Replace | | 1.0 | | | | | |
| | | Repair | | 0.5 | | | | | |
| | Cover, Cab | Inspect | 0.4 | | | | | | |
| | | Replace | | 0.2 | | | | | |
| | | Repair | | | 1.5 | | | | |
| | Bows | Inspect | 0.1 | | | | | | |
| | | Replace | | 0.2 | | | | | |
| | | Repair | | 0.2 | | | | | |
| | Cover, Body | Inspect | 0.1 | | | | | | |
| | | Replace | | 0.6 | | | | | |
| | | Repair | | | 1.5 | | | | |
| | Curtains, Body | Inspect | 0.1 | | | | | | |
| | | Replace | | 0.2 | | | | | |
| | | Repair | | | 1.0 | | | | |

## Section II. MAINTENANCE ALLOCATION CHART

| (1) Group Number | (2) Component/Assembly | (3) Maintenance Function | (4) Maintenance Level | | | | | (5) Tools and Equipment | (6) Remarks |
|---|---|---|---|---|---|---|---|---|---|
| | | | C | O | F | H | D | | |
| 2202 | Accessory Items | | | | | | | 97,98,99 | |
| | Motor, Windshield Wiper Blade | Inspect<br>Adjust<br>Replace | 0.3 | <br>0.3<br>0.4 | | | | | |
| | Mirror Assembly, Rear View | Replace | | 0.2 | | | | | |
| | Valve, Control, Windshield Wiper | Replace | | 0.2 | | | | | |
| 2210 | Data Plates | | | | | | | 97,98,99 | |
| | Plate, Vehicle Data | Replace | | 0.1 | | | | | |
| 47 | GAGES AND MEASURING DEVICES | | | | | | | | |
| 4701 | Instruments | | | | | | | 97,98,99 | |
| | Adapter, Speedometer and Tachograph Drive | Replace | | 0.6 | | | | 81 | |
| | Shaft, Flexible, Speedometer and Tachograph | Replace | | 1.0 | | | | 81 | |
| | Core Flexible Shaft Speedometer and Tachograph | Replace | | 0.5 | | | | 81 | |
| | Speedometer | Replace | | 0.4 | | | | | |
| 4702 | Gages, Mountings, Lines and Fittings | | | | | | | 97,98,99 | |
| | Gage, Air Pressure | Inspect<br>Replace | 0.1 | <br>0.6 | | | | <br>89 | |
| | SUPPLEMENT NUMBER 1<br><br>TRUCK, WRECKER, 5-Ton, 6x6, M816<br><br>NOTE: This supplement pertains to maintenance operations peculiar to the truck, wrecker, M816, and must be used in conjunction with the basic allocation chart. | | | | | | | | |

## Section II. MAINTENANCE ALLOCATION CHART

| (1) Group Number | (2) Component/Assembly | (3) Maintenance Function | (4) Maintenance Level | | | | | (5) Tools and Equipment | (6) Remarks |
|---|---|---|---|---|---|---|---|---|---|
| | | | C | O | F | H | D | | |
| 03 | FUEL SYSTEM | | | | | | | | |
| 0302 | Fuel Pumps | | | | | | | 97,98,99 | |
| | Valve, Governor MVS | Adjust | | | 0.3 | | | 63 | |
| | | Replace | | | 0.8 | | | 63 | |
| 06 | ELECTRICAL SYSTEM | | | | | | | | |
| 0608 | Miscellaneous Items | | | | | | | 97,98,99 | |
| | Switch, Floodlight Control | Replace | | 0.5 | | | | | |
| 0609 | Lights | | | | | | | 97,98,99 | |
| | Light, Flood | Replace | | 0.3 | | | | | |
| | | Repair | | 0.7 | | | | | |
| 0613 | Hull or Chassis Wiring Harness | | | | | | | 97,98,99 | |
| | Harness, Wiring | Replace | | 3.0 | | | | | |
| | | Repair | | 2.2 | | | | | |
| 18 | BODY | | | | | | | | |
| 1812 | Special Purpose Bodies | | | | | | | 97,98,99 | |
| | Outriggers and Jacks | Service | 0.1 | | | | | | |
| | | Replace | | 0.4 | | | | | |
| | | Repair | | | 0.8 | | | | |
| | Wrecker Body | Repair | | | 1.0 | | | | |
| 20 | WINCH, POWER TAKE-OFF AND HOIST | | | | | | | | |
| 2001 | Crane | | | | | | | 97,98,99 | |
| | Plate, Base | Repair | | | | 5.0 | | | |
| | Boom, Inner and Outer | Service | 0.1 | | | | | | |
| | | Replace | | | | 1.6 | | | |
| | | Repair | | | | 3.0 | | | |
| | Cylinder, Boom Crowd | Replace | | | 1.6 | | | | |
| | | Repair | | | | 4.0 | | | |
| | Cylinder, Boom Elevating | Replace | | | 1.6 | | | | |
| | | Repair | | | | 4.0 | | | |

## Section II. MAINTENANCE ALLOCATION CHART

| (1) Group Number | (2) Component/Assembly | (3) Maintenance Function | (4) Maintenance Level | | | | | (5) Tools and Equipment | (6) Remarks |
|---|---|---|---|---|---|---|---|---|---|
| | | | C | O | F | H | D | | |
| 2001 – cont | Packing, Boom Elevating Cylinder | Adjust | | 0.2 | | | | | |
| | | Replace | | | | 1.8 | | 95 | |
| | Slipring | Replace | | | | 7.2 | | | |
| | Brush, Slipring | Replace | | | 0.5 | | | | |
| | Block, Load | Service | 0.2 | | | | | | |
| | | Replace | | 1.5 | | | | | |
| | | Repair | | | 4.0 | | | | |
| | Motor, Hydraulic (Swing and Hoist) | Replace | | | 1.5 | | | | |
| | | Repair | | | | 4.7 | | | |
| | Drive, Angle (Bevel Gear) | Replace | | | | 1.0 | | | |
| | | Repair | | | | 1.5 | | | |
| | Band, Automatic Brake (Hoist) | Adjust | | 0.8 | | | | | |
| | | Replace | | | 2.0 | | | | |
| | Cab, Operator's | Repair | | | 6.0 | | | | |
| | Cable, Hoist | Inspect | 0.1 | | | | | | |
| | | Service | 2.0 | | | | | | |
| | | Replace | | 1.5 | | | | | |
| | | Repair | | 1.5 | | | | | |
| | Coupling, Hoist Motor | Replace | | | 1.2 | | | | |
| | Pump, Hydraulic | Replace | | | 0.5 | | | | |
| | | Repair | | | | 1.0 | | | |
| | Winch, Boom Hoist | Inspect | 0.3 | | | | | | |
| | | Service | 0.3 | | | | | | |
| | | Replace | | | 3.0 | | | | |
| | | Repair | | | 1.0 | 5.6 | | | |
| | Lines and Fittings | Replace | | 2.0 | | | | | |
| | Disk, Hoist Brake | Replace | | | 1.0 | | | | |
| | Reservoir, Hydraulic Oil | Service | 0.1 | | | | | | |
| | | Replace | | | 1.6 | | | | |
| | | Repair | | | 2.0 | | | | |
| | Guard and Bracket | Replace | | 0.1 | | | | | |

## Section II. MAINTENANCE ALLOCATION CHART

| (1) Group Number | (2) Component/Assembly | (3) Maintenance Function | (4) Maintenance Level | | | | | (5) Tools and Equipment | (6) Remarks |
|---|---|---|---|---|---|---|---|---|---|
| | | | C | O | F | H | D | | |
| 2001 – cont | Rollers, Boom and Shipper | Service | 0.1 | | | | | | |
| | | Adjust | | 0.2 | | | | | |
| | | Replace | | | | 1.5 | | | |
| | | Repair | | | | 1.0 | | | |
| | Shaft, Propeller, Angle Drive | Service | 0.1 | | | | | | |
| | | Replace | | 0.8 | | | | | |
| | | Repair | | 1.4 | | | | | |
| | Case, Gear, Hoist (Speed Reduction) | Service | 0.1 | | | | | | |
| | | Replace | | | | 1.5 | | | |
| | | Repair | | | | 1.0 | | | |
| | Gear, Ring and Bearing (Turntable) | Replace | | | | 1.8 | | | |
| | Gearbox, Swing Drive | Replace | | | | 3.2 | | | |
| | | Repair | | | | 2.0 | | | |
| | Seal, Angle Drive | Replace | | | | 0.5 | | | |
| | Seal, Swing Gear Shaft | Replace | | | | 0.5 | | | |
| | Seal, Oil Reduction Gearbox Cover | Replace | | | | 0.5 | | | |
| | Valve Bank, Control | Adjust | | 0.2 | | | | | |
| | | Replace | | | 2.1 | | | | |
| | | Repair | | | 3.2 | | | | |
| | Relief Valve | Replace | | | 0.5 | | | | |
| | Line Vent | Replace | | 2.0 | | | | | |
| | Valve, Restrictor | Replace | | 1.2 | | | | | |
| | Knob, Control Lever | Replace | | 0.3 | | | | | |
| | Power Divider | Replace | | | 1.0 | | | | |
| | | Repair | | | 1.5 | | | | |
| | Winch, Rear | Replace | | 2.0 | | | | | |
| | | Repair | | | | 6.0 | | | |
| | Winch Cable Tensioner and | Repair | | | | 1.0 | | | |
| | Winch Cable Tensioner and Brake Chamber Assembly | Repair | | | | 1.0 | | | |

## Section II. MAINTENANCE ALLOCATION CHART

| (1) Group Number | (2) Component/Assembly | (3) Maintenance Function | (4) Maintenance Level | | | | | (5) Tools and Equipment | (6) Remarks |
|---|---|---|---|---|---|---|---|---|---|
| | | | C | O | F | H | D | | |
| 22 | BODY AND ACCESSORY ITEMS | | | | | | | | |
| 2201 | Canvas, Rubber or Plastic Items | | | | | | | 97,98,99 | |
| | Seat, Operator | Replace | | 0.5 | | | | | |
| | | Repair | | | 0.5 | | | | |
| | SUPPLEMENT NUMBER 2 | | | | | | | | |
| | TRUCK, DUMP, 5-Ton, 6x6, M817 | | | | | | | | |
| | NOTE: This supplement pertains to maintenance operations peculiar to the truck, dump, M817, and must be used in conjunction with the basic allocation chart. | | | | | | | | |
| 18 | BODY | | | | | | | | |
| 1810 | Special Purpose Bodies | | | | | | | 97,98,99 | |
| | Gate, Tail W/Linkage | Adjust | | 0.1 | | | | | |
| | | Service | 0.1 | | | | | | |
| | | Replace | | | 0.5 | | | | |
| | | Repair | | | 0.8 | | | | |
| | Body, Dump | Repair | | | 3.0 | | | | |
| 20 | WINCH AND POWER TAKE-OFF | | | | | | | | |
| 2001 | Hoist | | | | | | | 97,98,99 | |
| | Cylinder, Hoist | Service | 0.2 | | | | | | |
| | | Replace | | | 2.0 | | | | |
| | | Repair | | | 3.0 | | | | |
| | Pump, Hoist | Replace | | 0.5 | | | | 92 | |
| | | Repair | | | 2.0 | | | | |
| | | Overhaul | | | | 6.5 | | | |
| | Lines and Fittings | Replace | | 2.0 | | | | | |
| | Joint, Universal | Service | 0.1 | | | | | | |
| | | Replace | | 0.5 | | | | | |
| | Controls | Replace | | 0.3 | | | | | |
| | | Repair | | 0.4 | | | | | |

## Section II. MAINTENANCE ALLOCATION CHART

| (1) Group Number | (2) Component/Assembly | (3) Maintenance Function | (4) Maintenance Level | | | | | (5) Tools and Equipment | (6) Remarks |
|---|---|---|---|---|---|---|---|---|---|
| | | | C | O | F | H | D | | |
| 2001 – cont | Valve, Control | Replace<br>Repair | | | 2.0<br>2.7 | | | | |
| | Bearings, Lifting Arm | Replace | | | 0.3 | | | | |
| | SUPPLEMENT NUMBER THREE<br><br>TRUCK, TRACTOR, 5-Ton, 6x6, M818<br><br>NOTE: This supplement pertains to maintenance operations peculiar to the truck, tractor, M818, and must be used in conjunction with the basic allocation chart. | | | | | | | | |
| 06 | ELECTRICAL SYSTEM | | | | | | | | |
| 0613 | Trailer Chassis Wiring Harness | | | | | | | 97,98,99 | |
| | Harness, Trailer Connector Cable | Replace<br>Repair | | 0.3<br>0.3 | | | | | |
| 12 | BRAKES | | | | | | | | |
| 1211 | Trailer Brake Connections and Controls | | | | | | | 97,98,99 | |
| | Cock, Cutout | Replace | | 0.5 | | | | | |
| | Coupling | Replace<br>Repair | | 0.2<br>0.3 | | | | | |
| | Hose, Trailer Brake | Replace<br>Repair | | 0.3<br>0.3 | | | | | |
| 1506 | Fifth Wheel | Service<br>Adjust<br>Replace<br>Repair | 0.1<br>0.3 | <br><br>1.0 | <br><br><br>2.0 | | | 97,98,99 | |
| 4701 | Instruments | | | | | | | 97,98,99 | |
| | Tachograph | Service<br>Replace | | 0.1<br>1.0 | | | | | |

## Section II. MAINTENANCE ALLOCATION CHART

| (1) Group Number | (2) Component/Assembly | (3) Maintenance Function | (4) Maintenance Level | | | | | (5) Tools and Equipment | (6) Remarks |
|---|---|---|---|---|---|---|---|---|---|
| | | | C | O | F | H | D | | |
| | SUPPLEMENT NUMBER FOUR<br><br>TRUCK, TRACTOR WRECKER, 5-Ton, 6x6, M819<br><br>NOTE: This supplement pertains to maintenance operations peculiar to the truck tractor wrecker M819, and must be used in conjunction with basic allocation chart. | | | | | | | | |
| 03 | FUEL SYSTEM | | | | | | | | |
| 0302 | Fuel Pumps | | | | | | | 97,98,99 | |
| | Valve, MVS Governor | Adjust<br>Replace | | | 0.5<br>1.2 | | | | |
| | Air Cylinder, Engine Speed Governor | Adjust<br>Replace | | | 0.5<br>0.9 | | | | |
| 06 | ELECTRICAL SYSTEM | | | | | | | | |
| 0608 | Miscellaneous Items | | | | | | | 97,98,99 | |
| | Lock, Brake | Replace | | 0.5 | | | | | |
| 0613 | Hull or Chassis Wiring Harness | | | | | | | 97,98,99 | |
| | Harness, Trailer Connector Cable | Replace<br>Repair | | 0.3<br>0.5 | | | | | |
| | Switch, Electrical Brake Lock | Replace | | 0.5 | | | | | |
| 12 | BRAKES | | | | | | | | |
| 1211 | Trailer Brake Connections and Controls | | | | | | | 97,98,99 | |
| | Cock, Cutout, Couplings, Hoses | Replace<br>Repair | | 0.5<br>1.0 | | | | | |
| 15 | FRAME | | | | | | | | |
| 1506 | Fifth Wheel | Service<br>Adjust<br>Replace<br>Repair | 0.1<br>0.3 | <br><br>1.0 | <br><br><br>2.0 | | | 97,98,99 | |

## Section II. MAINTENANCE ALLOCATION CHART

| (1) Group Number | (2) Component/Assembly | (3) Maintenance Function | (4) Maintenance Level | | | | | (5) Tools and Equipment | (6) Remarks |
|---|---|---|---|---|---|---|---|---|---|
| | | | C | O | F | H | D | | |
| 18 | BODY | | | | | | | | |
| 1812 | Special Purpose Bodies | | | | | | | 97,98,99 | |
| | Fenders, Wrecker | Replace | | | 2.7 | | | | |
| | | Repair | | | 0.5 | | | | |
| | Guards, Splash, Metal | Replace | | 0.5 | | | | | |
| | | Repair | | | 0.3 | | | | |
| | Guards, Splash, Rubber | Replace | | 0.2 | | | | | |
| | Outriggers and Jacks | Service | 0.1 | | | | | | |
| | | Replace | | 0.4 | | | | | |
| | | Repair | | | 1.0 | | | | |
| | Wrecker Body | Replace | | | 6.0 | | | | |
| | | Repair | | | 12.0 | | | | |
| 20 | WINCH, POWER TAKE-OFF AND HOIST | | | | | | | | |
| 2001 | Crane | | | | | | | 97,98,99 | |
| | Plate, Base | Repair | | | | 5.8 | | | |
| | Shipper | Replace | | | | 15.0 | | | |
| | | Repair | | | | 4.0 | | | |
| | Boom and Boom Extension | Replace | | | | 13.0 | | 95 | |
| | | Repair | | | | 4.0 | | 95,96 | |
| | Cylinder, Boom Crowd | Replace | | | 1.8 | | | | |
| | | Repair | | | | 4.0 | | 92,95 | |
| | Cylinder, Body Elevating | Replace | | | 1.8 | | | | |
| | | Repair | | | | 4.0 | | | |
| | Motor, Hydraulic (Swing and Hoist) | Replace | | | 1.5 | | | 92,95 | |
| | | Repair | | | | 4.0 | | | |
| | Cab, Operator's | Repair | | | 6.0 | | | | |
| | Cab, Door Handles | Replace | | 0.5 | | | | | |
| | Cab, Windows | Replace | | 0.5 | | | | | |
| | | Repair | | | 0.4 | | | | |
| | Cab, Door Check | Replace | | 0.2 | | | | | |

## Section II. MAINTENANCE ALLOCATION CHART

| (1) Group Number | (2) Component/Assembly | (3) Maintenance Function | (4) Maintenance Level | | | | | (5) Tools and Equipment | (6) Remarks |
|---|---|---|---|---|---|---|---|---|---|
| | | | C | O | F | H | D | | |
| 2001 – cont | Cable, Hoist | Inspect | 0.1 | | | | | | |
| | | Service | 0.1 | | | | | | |
| | | Replace | | 1.5 | | | | | |
| | | Repair | | 1.5 | | | | | |
| | Pump, Hydraulic | Replace | | | 0.5 | | | | |
| | | Repair | | | | 1.0 | | | |
| | Winch, Boom Hoist | Service | | 0.3 | | | | | |
| | | Replace | | | 3.0 | | | 92,93 | |
| | | Repair | | | | 5.0 | | | |
| | Hydraulic Lines and Fittings | Replace | | 2.0 | | | | | |
| | | Repair | | | 4.0 | | | | |
| | Reservoir, Hydraulic Oil | Service | 0.2 | | | | | | |
| | | Replace | | | 1.6 | | | 92,94 | |
| | | Repair | | | 2.0 | | | | |
| | Valve, Relief | Adjust | | 0.1 | | | | | |
| | | Replace | | | 2.7 | | | | |
| | | Repair | | | 3.2 | | | | |
| | Caps, Breather | Service | 0.2 | | | | | | |
| | | Replace | | 0.5 | | | | | |
| | Valve, Check | Service | | 0.1 | | | | | |
| | | Replace | | | 0.5 | | | | |
| | Rollers, Boom and Shipper | Service | 0.2 | | | | | | |
| | | Adjust | | | 0.5 | | | | |
| | | Replace | | | | 1.5 | | | |
| | | Repair | | | | 1.0 | | | |
| | Block, Load | Service | 0.1 | | | | | | |
| | | Replace | | 1.5 | | | | | |
| | | Repair | | | 4.0 | | | | |
| | Shaft, Propeller Angle, Drive | Service | 0.1 | | | | | | |
| | | Replace | | 0.8 | | | | | |
| | | Repair | | 1.4 | | | | | |
| | Case, Hoist Gear | Service | 0.1 | | | | | | |
| | | Replace | | | | 1.5 | | | |
| | | Repair | | | | 1.0 | | | |

## Section II. MAINTENANCE ALLOCATION CHART

| (1) Group Number | (2) Component/Assembly | (3) Maintenance Function | (4) Maintenance Level | | | | | (5) Tools and Equipment | (6) Remarks |
|---|---|---|---|---|---|---|---|---|---|
| | | | C | O | F | H | D | | |
| 2001 – cont | Case, Swing Gear | Service | 0.1 | | | | | | |
| | | Replace | | | | 3.2 | | | |
| | | Repair | | | | 2.0 | | | |
| | Post Assembly, Pivot | Service | 0.1 | | | | | | |
| | | Replace | | | | 0.3 | | | |
| | | Repair | | | | 0.5 | | | |
| | Valve Bank, Control | Replace | | | 0.5 | | | | |
| | | Repair | | | 0.8 | | | 95,96 | |
| | Valve, Swivel | Replace | | | 0.5 | | | | |
| 22 | BODY AND ACCESSORY ITEMS | | | | | | | | |
| 2201 | Canvas, Rubber or Plastic Items | | | | | | | 97,98,99 | |
| | Seat, Operator | Replace | | 0.5 | | | | | |
| | | Repair | | | 0.5 | | | | |
| 2202 | Accessory Items | | | | | | | 97,98,99 | |
| | Wiper, Windshield | Replace | 0.1 | | | | | | |
| | Motor, Windshield | Replace | | 0.5 | | | | | |
| 2210 | Data Plates | | | | | | | 97,98,99 | |
| | Data and Instruction Plates | Replace | | 0.2 | | | | | |
| | SUPPLEMENT NUMBER FIVE | | | | | | | | |
| | TRUCK, BRIDGE TRANSPORTING, 5-Ton, 6x6, M821 | | | | | | | | |
| | NOTE: This supplement pertains to that truck, bridge transporting, M821, and must be used in conjunction with the basic allocation chart. | | | | | | | | |
| 06 | ELECTRICAL SYSTEM | | | | | | | | |
| 0609 | Lights | | | | | | | 97,98,99 | |
| | Floodlamp | Replace | | 0.3 | | | | | |
| | | Repair | | 0.7 | | | | | |

## Section II. MAINTENANCE ALLOCATION CHART

| (1) Group Number | (2) Component/Assembly | (3) Maintenance Function | (4) Maintenance Level | | | | | (5) Tools and Equipment | (6) Remarks |
|---|---|---|---|---|---|---|---|---|---|
| | | | C | O | F | H | D | | |
| 0609 – cont | Clearance Lamps and Reflectors | Replace | | 0.2 | | | | | |
| 18 | BODY, CAB AND HOOD | | | | | | | | |
| 1802 | Fenders, Running Boards | | | | | | | 97,98,99 | |
| | Shield, Splash | Replace | | 0.2 | | | | | |
| | | Repair | | | 0.5 | | | | |
| 1808 | Stowage Racks, Boxes | | | | | | | 97,98,99 | |
| | Rack, Tool Box Stowage | Replace | | 0.5 | | | | | |
| | | Repair | | | 0.8 | | | | |
| 1812 | Special Purpose Bodies | | | | | | | 97,98,99 | |
| | Rack Assembly | Replace | | 0.5 | | | | | |
| | | Repair | | | 0.8 | | | | |
| | Shaft Assembly, Side Rack Lock | Replace | | 2.2 | | | | | |
| | | Repair | | 2.7 | | | | | |
| 20 | WINCH AND POWER TAKE-OFF | | | | | | | | |
| 2001 | Winch Assembly | | | | | | | 97,98,99 | |
| | Winch Assembly, Side | Service | 0.5 | | | | | | |
| | | Replace | | 1.2 | | | | | |
| | | Repair | | | 1.8 | | | | |
| | Winch Assembly, Rear | Service | 0.5 | | | | | | |
| | | Replace | | 1.5 | | | | | |
| | | Repair | | | 2.0 | | | | |
| | Cable, Winch Assembly | Inspect | 0.1 | | | | | | C |
| | | Service | 0.3 | | | | | | |
| | | Replace | | 1.0 | | | | | |
| | | Repair | | 1.5 | | | | | |
| | Roller, Rear | Service | 0.5 | | | | | | |
| | | Replace | | 2.0 | | | | | |
| | | Repair | | | 2.5 | | | 98 | |
| | Snatch Block | Service | 0.1 | | | | | | |
| | | Replace | 0.1 | | | | | | |
| | | Repair | | | 1.5 | | | | |

## Section II. MAINTENANCE ALLOCATION CHART

| (1) Group Number | (2) Component/Assembly | (3) Maintenance Function | (4) Maintenance Level | | | | | (5) Tools and Equipment | (6) Remarks |
|---|---|---|---|---|---|---|---|---|---|
| | | | C | O | F | H | D | | |
| | SUPPLEMENT NUMBER SIX<br><br>TRUCK, VAN, EXPANSIBLE, 5-Ton, 6x6, M820, M820A1, and M820A2<br><br>NOTE: This supplement pertains to maintenance operations peculiar to the truck, van, expansible, 5-ton, 6x6, M820, M820A1, and M820A2, and must be used in conjunction with the basic allocation chart. | | | | | | | | |
| 18 | BODY | | | | | | | | |
| 1812 | Special Purpose Bodies | | | | | | | 97,98,99 | |
| | Beam, Retractable | Replace | | | | 4.0 | | | |
| | Cable, Side Panel Counterbalance | Replace | | 1.6 | | | | | |
| | Clamp, Ladder Locking | Replace | | 0.2 | | | | | |
| | Counterbalance | Service<br>Replace<br>Repair | | 1.0 | | 8.0<br>6.0 | | | |
| | Clamp, Toggle, Side Panel to Roof | Replace | | 0.4 | | | | | |
| | Controls, Hand Air Conditioner Door | Replace | | 0.5 | | | | | |
| | Fixture, Fluorescent Light | Replace | | | 0.2 | | | | |
| | Jack, Phone | Replace | | 0.3 | | | | | |
| | Lamp (120V) | Replace | | 0.2 | | | | | |
| | Lens, Dome Light | Replace | | 0.1 | | | | | |
| | Light, Dome (120V) | Replace | | | 0.5 | | | | |
| | Light, Fluorescent | Replace | | 0.2 | | | | | |
| | Receptacle, Power Cable | Replace | | | 0.2 | | | | |
| | Reel, Power Cable | Replace | | | 0.3 | | | | |

## Section II. MAINTENANCE ALLOCATION CHART

| (1) Group Number | (2) Component/Assembly | (3) Maintenance Function | (4) Maintenance Level | | | | | (5) Tools and Equipment | (6) Remarks |
|---|---|---|---|---|---|---|---|---|---|
| | | | C | O | F | H | D | | |
| 1812 – cont | Switch, Blackout, Door and Panel (120V) | Replace | | 0.5 | | | | | |
| | Switch, Control Panel | Replace | | 0.5 | | | | | |
| | Switch, Light (120V) | Replace | | 0.5 | | | | | |
| | Wiring, Electrical (120V - 208V) | Replace<br>Repair | | | 2.5<br>2.0 | | | | |
| | Seal, Window, Glass | Replace | | 0.2 | | | | | |
| | Shaft, Drive, Side Panel Expanding and Retracting Mechanism | | | 4.0 | | | | | |
| | Spring, Door Check | Replace | | 0.2 | | | | | |
| | Valve, Shutoff (Fuel Tank to Heater) | Replace | | 0.2 | | | | | |
| | Weatherstrip, Doors and Panels | Replace | | 0.8 | | | | | |
| | Wheel, Drive, Retractable Beam | Replace | | | | 0.5 | | | |
| | Lights, Clearance (24V) | Replace | | 0.2 | | | | | |
| | Wiring, Electrical (24V) | Replace<br>Repair | | | 2.0<br>2.0 | | | | |
| | Box, Electrical (120V) | Replace | | | 2.5 | | | | |
| | Cable, Power (120V - 208V) | Replace | | 0.2 | | | | | |
| | Filter, Fuel, Heater | Service<br>Replace | | 0.1<br>0.2 | | | | | |
| | Doors | Replace<br>Repair | | | 2.5 | 5.0 | | | |
| | Roof, Ceiling, Sides, Floor, Underframe | | | | | 8.0<br>16.0 | | | |
| | Glass, Window | Replace | | | 0.6 | | | | |
| | Hinge, Door | Replace | | 0.5 | | | | | |

## Section II. MAINTENANCE ALLOCATION CHART

| (1) Group Number | (2) Component/Assembly | (3) Maintenance Function | (4) Maintenance Level | | | | | (5) Tools and Equipment | (6) Remarks |
|---|---|---|---|---|---|---|---|---|---|
| | | | C | O | F | H | D | | |
| 1812 – cont | Lines and Fittings, Fuel Tank to Heater | Replace<br>Repair | | 0.5<br>0.6 | | | | | |
| | Lock and Latch Door | Replace | | 0.5 | | | | | |
| | Lock, Drive Shaft Ratchet | Replace | | 0.3 | | | | | |
| | Lock, Side Panel | Replace | | 0.5 | | | | | |
| | Panel, Blackout, Window | Replace | | 1. | | | | | |
| | Plate, Stricker, Door | Replace | | 0.1 | | | | | |
| | Pump, Fuel Heater (24V) | Replace | | | 0.5 | | | | |
| | Ratchet, Drive Shaft | Replace | | | | 0.3 | | | |
| | Regulator, Window | Replace | | 0.3 | | | | | |
| | Roller, Retractable | Replace | | | | 0.5 | | | |
| | Screen, Window | Replace | | 0.3 | | | | | |
| | Heater | Replace<br>Repair | | | 4.0<br>3.0 | | | | |
| | Air Conditioner | Replace<br>Repair | | | 4.0<br>6.0 | | | | |
| | GROUP 1812 – HYDRAULIC TAILGATE (M820A2 ONLY) | | | | | | | | |
| | Tailgate, Hydraulic | Service<br>Adjust<br>Repair | 0.5 | 1.5 | 2.5 | | | | |
| | Cylinder, Elevating | Replace<br>Repair | | | 3.0<br>2.5 | | | 92,95 | |
| | Cylinder, Closing | Replace<br>Repair | | | 3.0 | 2.5 | | 92,93 | |
| | Lock Hook Assembly, Elevating | Adjust<br>Repair | | 0.2 | 0.7 | | | | |
| | Drive Shafts and Universal Joint | Service<br>Replace<br>Repair | 0.2 | | 1.4<br>2.0 | | | | |

## Section II. MAINTENANCE ALLOCATION CHART

| (1) Group Number | (2) Component/Assembly | (3) Maintenance Function | (4) Maintenance Level | | | | | (5) Tools and Equipment | (6) Remarks |
|---|---|---|---|---|---|---|---|---|---|
| | | | C | O | F | H | D | | |
| 1812 – cont | Pump, Hydraulic | Service<br>Replace<br>Repair | | 0.1 | <br>3.2<br>3.0 | | | 92 | |
| | Valves, Control | Service<br>Replace<br>Repair | | 0.1 | <br>3.5<br>3.0 | | | 92,96 | |
| | Levers, Operating | Adjust<br>Replace<br>Repair | | 0.2<br>0.3<br>0.6 | | | | 92,96 | |
| | Lift, Frame | Replace | | | 0.5 | | | | |
| | Clutch Assembly (Right and Left) | Replace | | | 1.2 | | | | |
| | Hook, Pivot | Replace | | | 0.2 | | | | |
| | Brackets and Supports, Mounting | Replace<br>Repair | | | 0.5<br>0.8 | | | | |
| | Power Unit, Electric | Service<br>Replace | | 0.3 | <br>1.0 | | | | |
| | SUPPLEMENT NUMBER SEVEN<br><br>TRUCK, BOLSTER, 5-Ton, 6x6, M815<br><br>NOTE: This supplement pertains to maintenance operations peculiar to the truck, bolster, 5-ton, 6x6, M815, and must be used in conjunction with the basic allocation chart. | | | | | | | | |
| 18 | BODY | | | | | | | | |
| 1812 | Special Purpose Bodies | | | | | | | 97,98,99 | |
| | Body | Repair | | | 2.3 | | | | |
| | Protector, Cab | Replace<br>Repair | | | 3.0<br>4.0 | | | | |
| | Bolster | Replace<br>Repair | | 2.5 | <br>3.0 | | | | |

## Section II. MAINTENANCE ALLOCATION CHART

| (1) Group Number | (2) Component/Assembly | (3) Maintenance Function | (4) Maintenance Level | | | | | (5) Tools and Equipment | (6) Remarks |
|---|---|---|---|---|---|---|---|---|---|
| | | | C | O | F | H | D | | |
| 1812 – cont | Carrier, Trailer | Replace | | | 0.8 | | | | |
| | | Repair | | | 1.2 | | | | |
| 20 | WINCH AND POWER TAKE-OFF | | | | | | | | |
| 2001 | Winch Assembly | Service | 0.5 | | | | | 97,98,99 | |
| | | Replace | | 1.5 | | | | | |
| | | Repair | | | 2.0 | | | | |
| | | Overhaul | | | | 3.0 | | | |
| | Shear Pin | Replace | 0.5 | | | | | | |
| | Brake, Automatic | Adjust | | 0.5 | | | | | |
| | | Replace | | | 1.0 | | | | |
| | Cable, Winch | Inspect | 0.1 | | | | | | |
| | | Service | 2.0 | | | | | | C |
| | | Replace | | 1.0 | | | | | |
| | | Repair | | 1.5 | | | | | |
| | Chain and Hook | Replace | | 0.3 | | | | | |
| | Lock, Shift Lever | Replace | | 0.3 | | | | | |
| | | Repair | | 0.5 | | | | | |
| | Shaft, PTO | Replace | | 0.7 | | | | | |
| | Pillow Block | Replace | | 0.5 | | | | | |
| | Chain, Drive | Replace | | 0.8 | | | | | |
| | | Repair | | 1.5 | | | | | |
| | Sprockets | Replace | | 0.8 | | | | | |
| | Joint, Universal | Service | 0.1 | | | | | | |
| | | Replace | | 0.8 | | | | | |
| | Controls and Linkage | Adjust | | 0.3 | | | | | |
| | | Replace | | | 0.3 | | | | |
| | | Repair | | 0.5 | | | | | |

## Section II. MAINTENANCE ALLOCATION CHART

| (1) Group Number | (2) Component/Assembly | (3) Maintenance Function | (4) Maintenance Level | | | | | (5) Tools and Equipment | (6) Remarks |
|---|---|---|---|---|---|---|---|---|---|
| | | | C | O | F | H | D | | |
| | SUPPLEMENT NUMBER EIGHT | | | | | | | | |
| | SPECIAL PURPOSE KITS | | | | | | | | |
| | NOTE: This supplement pertains to maintenance operations for kits used in conjunction with the M809 series trucks. | | | | | | | | |
| 33 | SPECIAL PURPOSE KITS | | | | | | | | |
| 3303 | Winterization Kits | | | | | | | 97,98,99 | |
| | Kit, Engine Coolant Heater (-65°F) | Install | | | 12.0 | | | | |
| | Hoses and Tubes | Replace | | 0.5 | | | | | |
| | Heater Assembly (-65°F) | Test | | 0.5 | 0.5 | | | | |
| | | Replace | | 1.5 | | | | | |
| | | Repair | | | 1.0 | | | | |
| | Tube, Exhaust | Replace | | 0.5 | | | | | |
| | Shroud Assembly, Oil Pan | Repair | | | 0.7 | | | | |
| | | Replace | | 0.5 | | | | | |
| | Cover Assembly, Hood | Replace | | 0.5 | | | | | |
| | | Repair | | | 0.7 | | | | |
| | Cover Assembly, Radiator | Replace | | 0.4 | | | | | |
| | | Repair | | | 0.5 | | | | |
| | Installation, Running Board | Replace | | 0.5 | | | | | |
| | Diverter | Replace | | 0.7 | | | | | |
| | Cable, Control | Replace | | 0.5 | | | | | |
| | Pump, Fuel | Replace | | 0.5 | | | | | |
| | | Test | | 0.3 | | | | | |
| | | Service | | 0.2 | | | | | |
| | Ducting | Replace | | 0.7 | | | | | |
| | Kit, Personnel Hot Water Heater (-25°F) | Install | | | 12.0 | | | | |

## Section II. MAINTENANCE ALLOCATION CHART

| (1) Group Number | (2) Component/Assembly | (3) Maintenance Function | (4) Maintenance Level | | | | | (5) Tools and Equipment | (6) Remarks |
|---|---|---|---|---|---|---|---|---|---|
| | | | C | O | F | H | D | | |
| 3303 – cont | Diverter | Replace | | 0.7 | | | | | |
| | Ducting | Replace | | 0.7 | | | | | |
| | Cable, Control | Replace | | 0.5 | | | | | |
| | Heater, Assembly | Test | | 0.5 | | | | | |
| | | Replace | | 1.5 | | | | | |
| | | Repair | | | 1.0 | | | | |
| | Hoses | Replace | | 0.5 | | | | | |
| | Cover Radiator | Replace | | 0.4 | | | | | |
| | | Repair | | | 0.5 | | | | |
| | Leads, Electrical | Inspect | | 0.2 | | | | | |
| | | Replace | | 0.4 | | | | | |
| | | Repair | | 0.5 | | | | | |
| | Insulation, Battery Box (-65°F) | Replace | | 0.7 | | | | | |
| | Breaker, Circuit | Test | | 0.3 | | | | | |
| | | Replace | | 0.5 | | | | | |
| | Box Assembly, Control | Test | | 0.3 | | | | | |
| | | Replace | | 0.5 | | | | | |
| | | Repair | | | 0.6 | | | | |
| | Harness, Electrical | Replace | | | 1.0 | | | | |
| | | Repair | | | 1.0 | | | | |
| | Kit, Fuel Burning Personnel Heater (-65°F) | Install | | | 12.0 | | | | |
| | Boot, Transmission Shift Lever | Replace | | 0.5 | | | | | |
| | Cover, Transfer and Winch Shift Levers | Replace | | 0.5 | | | | | |
| | Evaporator | Inspect | | 0.2 | | | | | |
| | | Replace | | 0.5 | | | | | |
| | | Repair | | 0.7 | | | | | |
| | Tube, Evaporator | Replace | | 0.3 | | | | | |
| | Line, Fuel | Replace | | 0.3 | | | | | |
| | | Repair | | 0.5 | | | | | |

## Section II. MAINTENANCE ALLOCATION CHART

| (1) Group Number | (2) Component/Assembly | (3) Maintenance Function | (4) Maintenance Level | | | | | (5) Tools and Equipment | (6) Remarks |
|---|---|---|---|---|---|---|---|---|---|
| | | | C | O | F | H | D | | |
| 3303 – cont | Resistor | Test | | 0.2 | | | | | |
| | | Replace | | 0.3 | | | | | |
| | Switch, Blower Motor | Test | | 0.2 | | | | | |
| | | Replace | | 0.3 | | | | | |
| | Kit, Thermal Barrier (-65°F) | Install | | | 12.0 | | | | |
| | Panels | Replace | | 1.0 | | | | | |
| | | Repair | | 0.8 | | | | | |
| | Floormats | Replace | | 1.0 | | | | | |
| | | Repair | | 0.8 | | | | | |
| | Covers | Replace | | 0.8 | | | | | |
| | | Repair | | 0.8 | | | | | |
| | Kit, Slave Receptacle | Install | | | 1.5 | | | | |
| | Receptacle Assembly | Test | | 0.3 | | | | | |
| | | Replace | | 0.8 | | | | | |
| | | Repair | | 0.5 | | | | | |
| | Kit, Hardtop Cab | Install | | | 3.5 | | | | |
| | Panel, Rear | Replace | | | 2.2 | | | | |
| | | Repair | | | 1.5 | | | | |
| | Run, Side Window | Adjust | | 0.3 | | | | | |
| | | Replace | | 1.0 | | | | | |
| | Retainer, Window Run | Replace | | 0.5 | | | | | |
| | Insulation | Replace | | 0.5 | | | | | |
| | Window Assembly, Rear | Replace | | 1.2 | | | | | |
| | | Repair | | | 0.7 | | | | |
| | Glass, Rear Window | Replace | | | 1.0 | | | | |
| | Seals | Replace | | 1.0 | | | | | |
| | Top Assembly | Replace | | | 2.0 | | | | |
| | | Repair | | | 1.5 | | | | |

## Section II. MAINTENANCE ALLOCATION CHART

| (1) Group Number | (2) Component/Assembly | (3) Maintenance Function | (4) Maintenance Level | | | | | (5) Tools and Equipment | (6) Remarks |
|---|---|---|---|---|---|---|---|---|---|
| | | | C | O | F | H | D | | |
| 3305 | Deep Water Fording Kits | | | | | | | 97,98,99 | |
| | Kit, Deep Water Fording | Install | | | 12.0 | | | | |
| | Cable, Control | Replace | | 0.7 | | | | | |
| | Valve, Control | Replace | | 1.5 | | | | | |
| | Hoses and Tubes | Replace | | 0.9 | | | | | |
| | Snorkel | Replace | | 0.5 | | | | | |
| | Valve, Relief | Replace | | 0.6 | | | | | |
| | Valve, Regulator | Replace | | 0.9 | | | | | |
| 3307 | Special Purpose Kits | | | | | | | 97,98,99 | |
| | Kit, Troop Seat (M817) | Install | | | 3.0 | | | | |
| | Back Assembly, Troop Seat | Replace<br>Repair | | 0.5<br>1.0 | | | | | |
| | Seat Assembly | Replace<br>Repair | | 0.4<br>1.0 | | | | | |
| | Hinge, Seat | Replace | | 0.5 | | | | | |
| | Leg, Seat | Repair | | 0.5 | | | | | |
| | Kit, Tarp and Bow | Install | | 1.0 | | | | | |
| | Stake, Bow | Replace | | 0.4 | | | | | |
| | Bow Assembly | Replace<br>Repair | | 0.6<br>1.0 | | | | | |
| | Strap, Bow | Replace | | 0.3 | | | | | |
| | Strap, Safety | Replace | | 0.5 | | | | | |
| | Tarpaulin Assembly | Replace<br>Repair | | 1.0 | <br>1.5 | | | | |
| | Curtain, End | Replace<br>Repair | | 0.3 | <br>1.0 | | | | |
| | Kit, Hand Air Brake | Install | | | 2.5 | | | | |

## Section II. MAINTENANCE ALLOCATION CHART

| (1) Group Number | (2) Component/Assembly | (3) Maintenance Function | (4) Maintenance Level | | | | | (5) Tools and Equipment | (6) Remarks |
|---|---|---|---|---|---|---|---|---|---|
| | | | C | O | F | H | D | | |
| 3307 – cont | Valve, Control | Replace | | 0.7 | | | | 92,96 | |
| | Tubes, Air | Replace | | 0.5 | | | | | |
| | Valves, Check | Replace | | 0.6 | | | | 92 | |
| | Kit, Electric Brake | Install | | | 3.0 | | | | |
| | Controller Assembly | Test | | | 0.2 | | | | |
| | | Service | | | 0.2 | | | | |
| | | Adjust | | | 0.3 | | | | |
| | | Replace | | | 1.0 | | | | |
| | | Repair | | | | 1.5 | | | |
| | Harness, Electrical | Test | | | 0.3 | | | | |
| | | Replace | | | 1.0 | | | | |
| | | Repair | | | 0.8 | | | | |
| | Rheostat Assembly | Test | | | 0.3 | | | | |
| | | Replace | | | 0.9 | | | | |
| | Kit, A-Frame | Install | | | 2.0 | | | | |
| | Screw, Adjusting | Adjust | | 0.2 | | | | | |
| | | Replace | | 0.3 | | | | | |
| | Pins and Chains | Replace | | 0.5 | | | | | |
| | Tube, Spreader | Replace | | 0.6 | | | | | |
| | Tube, Spacer | Replace | | 0.6 | | | | | |
| | Cable | Replace | | 1.0 | | | | | |

## Section III. TOOL AND TEST EQUIPMENT REQUIREMENTS

| (1) Reference Code | (2) Maintenance Level | (3) Nomenclature | (4) National/NATO Stock Number | (5) Tool Number |
|---|---|---|---|---|
| | | SPECIAL TOOLS ENGINE | | |
| 1 | H,D | Attachment Dial Gage: Flywheel Housing Alinement | 4910-00-499-5428 | ST-112 (15434) |
| 2 | H,D | Bar, Checking: Checking Main Bearing Bore | 4910-01-043-7584 | ST-1177-16(15434) |
| 3 | H,D | Reamer: Semi Finish Main Bearing Cups (Used W/ST-219) | 5110-00-988-3494 | ST-172 (15434) |
| 4 | H,D | Gage, Plug: Connecting Rod Bushing | | ST-205 (15434) |
| 5 | H,D | Driver, Hand: Main Bearing Bore and Reamer | 5120-00-999-1205 | 11600026 ST-219 (15434) |
| 6 | H,D | Vise, Ball Joint: Hold Pt Fuel Pump | 4910-00-999-1506 | 11600028 ST-302 (15434) |
| 7 | H,D | Holder: Press Injector Sleeve in Cylinder Head | 5120-00-104-1795 | 11600029 ST-384 (15434) |
| 8 | F,H,D | Replacer: Accessory Drive Pulley | 5180-00-944-0374 | ST-386 (15434) |
| 9 | H,D | Fixture, Drill and Ream: Flywheel Dowel Holes | | ST-406 (15434) |
| 10 | H,D | Tool: Fuel Pump Front Cover Oil Seal | 5120-00-896-8097 | 11600031 ST-419 (15434) |
| 11 | H,D | Centering Ring: (Used W/ST-1177-16) | | ST-1177-39(15434) |
| 12 | H,D | Checking Ring: (Used W/ST-1177-16) | | ST-1177-13(15434) |
| 13 | F,H,D | Gage: Fuel System Pressure Calibration | 6685-00-678-9004 | 11600036 ST-435 (15434) |
| 14 | H,D | Fixture, Ream: Fuel Pump Front Main Bearing | 5110-00-981-3107 | 11600038 ST-490 (15434) |

## Section III. TOOL AND TEST EQUIPMENT REQUIREMENTS

| (1) Reference Code | (2) Maintenance Level | (3) Nomenclature | (4) National/NATO Stock Number | (5) Tool Number |
|---|---|---|---|---|
| 15 | F,H,D | Puller: Air Compressor Unloader Valve Seat | 5120-00-065-1031 | ST-544 (15434) |
| 16 | H,D | Plate: Mounting Pt Fuel Pumps (Used W/ST-302, 11600028) | 4910-00-977-7505 | 11600040 ST-546 (15434) |
| 17 | H,D | Gage: Piston Ring Groove Wear | 5210-00-999-1209 | 11600043 ST-560 (15434) |
| 18 | H,D | Tool: Crankshaft Rear Seal Assembly | 4910-00-150-5794 | ST-582 (15434) |
| 19 | H,D | Fixture: Engine Injector Timing (Calibration Required) | 4910-00-712-0537 | ST-593 (15434) |
| 20 | H,D | Driver: Engine Cylinder Sleeve | 5120-00-999-1206 | 11600048 ST-594 (15434) |
| 21 | H,D | Mandrel: Remove and Install Gear Bushing | 5120-00-978-0805 | ST-598 (15434) |
| 22 | H,D | Driver: Injector Sleeve | 5120-00-981-3108 | 11600050 ST-632 (15434) |
| 23 | H,D | Driver: Crosshead Drive | 4910-00-150-5797 | ST-633 (15434) |
| 24 | F,H,D | Adapter: Torque Wrench Valve Adjust | 5120-00-103-4687 | ST-669 (15434) |
| 25 | F,H,D | Block and Mandrel: Set Valve Rocker Lever Bushing | 3460-00-999-1210 | 11600059 ST-691 (15434) |
| 26 | F,H,D | Puller: Fuel Pump Governor Weights | 5120-00-999-1504 | 11600061 ST-709 (15434) |
| 27 | F,H,D | Tool: Engine Barring | 4910-00-150-5798 | ST-747 (15434) |
| 28 | H,D | Puller: Engine Cylinder Sleeve | 5120-00-417-2952 | ST-970 (45225) |

Section III. TOOL AND TEST EQUIPMENT REQUIREMENTS

| (1) Reference Code | (2) Maintenance Level | (3) Nomenclature | (4) National/NATO Stock Number | (5) Tool Number |
|---|---|---|---|---|
| 29 | H,D | Puller, Plate: Engine Cylinder Sleeve (Used W/ST-777, 11600073) | 5120-00-999-1263 | 11600075 ST-781 (15434) |
| 30 | H,D | Driver: Camshaft Bearing Installer and Remover | 5120-00-953-9664 | 11600076 ST-782 (15434) |
| 31 | H,D | Mandrel: Camshaft Bearing (Used W/ST-782) | 5120-00-055-4013 | ST-784 (15434) |
| 32 | H,D | Tool: Injector Sleeve Bead Cutting | 5110-00-932-2089 | ST-788 (15434) |
| 33 | F,H,D | Adapter: Engine Stand W/Mounting Hardware | 4910-00-150-5799 | ST-805 (15434) |
| 34 | H,D | Tool: Fuel Pump Throttle Shaft "O" Ring Assembly | 5120-00-999-1505 | 11600081 ST-835 (15434) |
| 35 | H,D | Driver: Governor Barrel Lock Clip | 4910-00-150-5801 | ST-853 (15434) |
| 36 | F,H,D | Driver: Rocker Lever Shaft Cup Plug | 5120-00-964-4489 | ST-863 (15434) |
| 37 | H,D | Driver: Rod Bushing | 4910-00-150-5802 | ST-870 (15434) |
| 38 | F,H,D | Brush: Fuel Passage Cleaning | 7920-00-168-3244 | ST-876 (15434) |
| 39 | H,D | Expander: Injector Sleeve | 3441-00-922-6699 | ST-880 (15434) |
| 40 | H,D | Cutter: Injector Sleeve | 4910-00-981-3105 | 11600086 ST-884 (15434) |
| 41 | H,D | Tool: Cylinder Head Grooving | 4910-00-999-1499 | 11600092 ST-913 (15434) |
| 42 | F,H,D | Driver: Thermostat Seal | 4910-00-150-5803 | ST-953 (15434) |
| 43 | H,D | Driver: Valve Guide | 4910-00-150-5804 | ST-714 (15434) |

Section III. TOOL AND TEST EQUIPMENT REQUIREMENTS

| (1) Reference Code | (2) Maintenance Level | (3) Nomenclature | (4) National/NATO Stock Number | (5) Tool Number |
|---|---|---|---|---|
| 44 | F,H,D | Tool: Fuel Pump Spring Pack Adjusting | 4910-00-150-5805 | ST-984 (15434) |
| 45 | H,D | Driver: Crankshaft Oil Seal | 4910-00-150-5810 | ST-997 (15434) |
| 46 | H,D | Driver: Tachometer Drive Seal | 5120-00-896-8087 | 11600034 (19207) |
| 47 | F,H,D | Driver: Cam Follower and Rocker Lever Housing Cup Plug | 4910-00-150-5818 | ST-1053 (15434) |
| 48 | H,D | Extension: Injector Plunger (Used W/ST-990) | 4910-00-150-5819 | ST-1089 (15434) |
| 49 | H,D | Tool: Governor Plunger Protrusion (Calibration Required) | 4910-00-150-5839 | ST-1120 (15434) |
| 50 | H,D | Driver: Valve Seat Insert Staking Tool | 4910-00-150-5843 | ST-1122 (15434) |
| 51 | H,D | Tool: Valve Seat Insert (Used w/ST-1122) | 4910-00-150-5844 | ST-1124 (15434) |
| 52 | H,D | Remover: Valve Seat | 4910-00-150-5847 | ST-1133 (15434) |
| 53 | H,D | Extractor, Valve Pin: Crosshead Guides and Dowel Pins | 4910-00-150-5848 | ST-1134 (15434) |
| 54 | H,D | Extractor, Sleeve: Injector Sleeve | 4910-00-150-5858 | ST-1140 (15434) |
| 55 | F,H,D | Remover, Crankshaft Flange | 4910-00-185-8500 | ST-887 (15434) |
| 56 | F,H,D | Assembly, Tool Loading Fixture | 4910-00-185-8505 | ST-1057 (15434) |
| 57 | F,H,D | Adapter, Calibrator Fuel Injector | 4910-00-185-8508 | ST 1058 (15434) |
| 58 | F,H,D | Crow Foot, Wrench | 4910-00-185-8511 | ST-1072 (15434) |
| 59 | H,D | Wrench, Injector Cup | 5120-00-150-7452 | ST-995 (15434) |

## Section III. TOOL AND TEST EQUIPMENT REQUIREMENTS

| (1) Reference Code | (2) Maintenance Level | (3) Nomenclature | (4) National/NATO Stock Number | (5) Tool Number |
|---|---|---|---|---|
| 60 | H,D | Burnisher, Adjustable: Hole Tool | 4910-00-999-1503 | ST-708 (15434) 11600060 (19207) |
| 61 | H,D | Spacer, Plate: Block Fuel | 5365-00-901-2159 | ST-844 (15434) 11600117 (19207) |
| 62 | H,D | Master Injector: Gage | 4910-00-999-1500 | ST-768 (15434) 11600071 (19207) |
| 63 | H,D | Injector: Leakage Detector | 5120-01-029-6861 | ST-990 (15434) |
| 64 | H,D | Tester: Injector Spray Angle | 4910-00-999-1501 | ST-668 (15434) 11600056 (19207) |
| | | TRANSMISSION AND TRANSFER | | |
| 65 | H,D | Adapter: Transfer Case Front Drive Rear Bearing Cone (Used W/5120-00-356-4544 Puller) | 5120-00-795-0090 | 7950090 (19207) |
| 66 | H,D | Bracket: Adapting Left Side of Transfer Case to 4910-00-449-4196 Stand | 4910-00-610-0919 | 7010362 (19207) |
| 67 | F,H,D | Bracket: Adapting Right Side of Transfer Case, 4910-00-449-4196 Stand | 5340-00-610-0920 | 7010363 (19207) |
| 68 | F,H,D | Fixture: Transfer Case Remove and/or Replace (Used W/4910-00-422-8565 Lift) | 5120-00-341-4974 | 8708898 (19207) |
| 69 | F,H,D | Puller Kit, Mechanical: Companion Flanges | 5120-00-338-6721 | 8708724 (19207) |
| 70 | F,H,D | Replace, Yoke: Transmission or Transfer Companion Flanges | 5120-00-795-0147 | 7950147 (19207) |
| 71 | F,H,D | Replacer: Transfer Case Front Drive Gear Oil Seal | 5120-00-795-0152 | 7950152 (19207) |

Section III. TOOL AND TEST EQUIPMENT REQUIREMENTS

| (1) Reference Code | (2) Maintenance Level | (3) Nomenclature | (4) National/NATO Stock Number | (5) Tool Number |
|---|---|---|---|---|
| | | Section III – RUNNING GEAR | | |
| 72 | O,F,H,D | Adapter: Steering Wheel (Used W/5120-00-422-8510 Puller) | 5120-00-303-1195 | 8708638 (19207) |
| 73 | H,D | Adapter: Differential Carrier Bearings (Used W/5120-00-356-4544 Puller) | 5120-00-795-0112 | 7950112 (19207) |
| 74 | H,D | Gage: Differential Pinion Setting | 4910-00-795-0104 | 7950104 (19207) |
| 75 | F,H,D | Kit: Check Power Steering Oil Pressure | 4910-00-627-7043 | 7010267 (19207) |
| 76 | H,D | Puller, Screw Type: Differential Helical Pinion Case, 2 Required Per Operation | 5120-00-836-6689 | 8366689 (19207) |
| 77 | F,H,D | Remover: Front Axle Spindle Inner Bushing | 5120-00-378-4301 | 7950127 (19207) |
| 78 | F,H,D | Remover and Replacer: Torque Rod Ball Assembly | 5120-00-048-7370 | 8708220 (19207) |
| 79 | H,D | Remover and Replacer: Differential Rear Bearing Cage Bearing Cup | 5120-00-795-0079 | 7950079 (19207) |
| 80 | H,D | Replacer: Differential Carrier Spur Pinion Cage Bearing Cup | 5120-00-795-0082 | 7950082 (19207) |
| 81 | F,H,D | Replacer: Tachometer Drive Oil Seal and Bearing | 5120-00-795-0108 | 7950108 (19207) |
| 82 | H,D | Remover and Replacer, Bearing, Front Axle Oil Seal | 5120-00-795-0129 | 7950129 (19207) |
| 83 | H,D | Replacer, Oil Seal: Rear Axle Oil Seal Wiper | 5120-00-795-0136 | 7950136 (19207) |
| 84 | F,H,D | Replacer, Flange: Differential Case Companion | 5120-00-795-0155 | 7950155 (19207) |
| 85 | F,H,D | Replacer, Oil Seal: Air Hydraulic Cylinder Push Rod Oil Seal | 5120-00-610-6719 | 8742053 (19207) |
| 86 | F,H,D | Replacer, Snap Ring: Air Hydraulic Cylinder Check Valve Snap Ring | 5120-00-610-6720 | 8742059 (19207) |
| 87 | F,H,D | Scale, Dial Indicating: Differential Pinion Bearing Pre Load | 6627-00-240-5821 | 7950157 (19207) |

## Section III. TOOL AND TEST EQUIPMENT REQUIREMENTS

| (1) Reference Code | (2) Maintenance Level | (3) Nomenclature | (4) National/NATO Stock Number | (5) Tool Number |
|---|---|---|---|---|
| 88 | O,F,H,D | Wrench, Socket: Wheel Bearing Nut | 5120-00-378-3139 | 7076968 (19207) |
| 89 | H,D | Gage, Pressure, Dial, Indicating: Air Brake: Check Air Pressure | 6685-00-387-9654 | 7541305 (19207) |
| 90 | O,F,H,D | Socket Wrench, Deep-3/4 Drive, 1-5/16 Opening, Front Spring & Bolts | 5130-00-540-0566 | SIM-422 (12038) |
| 91 | O,F,H,D | Socket Wrench, 3/4" Drive, 12 Point 2-1/4 Steering Gear Retaining Nut<br><br>CRANE AND CONTROL UNITS Additional Special Tools for Wrecker Vehicles | 5120-00-199-7771 | GLDH-722 (55119) |
| 92 | O,F,H,D | Gage: Pressure Kit 2,000 Lb. Checking Oil Pressure | 4910-00-792-8304 | 3005456 (24076) |
| 93 | H,D | Replacer: Hoist Cylinder Head Guide Bushing (Used W/7010321 Handle) | 5120-00-792-1612 | 3005319 (24076) |
| 94 | H,D | Handle: Hoist Cylinder Head Guide Bushing Replacer, Replacer Used W/Replacer 3005319 | 5120-00-601-2234 | 7010321 (19207) |
| 95 | O,F,H,D | Wrench, Spanner: Hoist Cylinder Head Packing Nut | | 8747917 (19207) |
| 96 | F,H,D | Tool: Seal Retainer Control Valve Bank, Remove and Install Oil Seal<br><br>COMMON TOOL KITS (The below listed kits contain the basic common tools required at all levels of maintenance) | 5120-00-150-5950 | Y-56205 (19207) |
| 97 | O,F,H,D | No. 1 Common Organizational Maintenance Tool Kit | 4910-00-754-0654 | SC4910-95-CL-A74 |
| 98 | O,F,H.D | No. 1 Supplemental Organizational Maintenance Tool Kit | 4910-00-754-0653 | SC4910-95-CL-A73 |
| 99 | O,F,H,D | No. 2 Common Organizational Maintenance Tool Kit | 4910-00-754-0650 | SC4910-95-CL-A72 |

Section III. TOOL AND TEST EQUIPMENT REQUIREMENTS

| (1) Reference Code | (2) Maintenance Level | (3) Nomenclature | (4) National/NATO Stock Number | (5) Tool Number |
|---|---|---|---|---|
| | | SPECIAL TOOL KITS (The below listed kits contain the special tools listed above, at the maintenance levels indicated) | | |
| | O | Tool Kit: Organizational Maintenance 2nd Ech. | 5180-00-762-1737 | 5704499 (19207) |
| | F | Tool Kit: Field Maintenance 3rd Ech. | 5180-00-762-1740 | 5704500 (19207) |
| | H | Tool Kit: General Support Maintenance 4th Ech. | 5180-00-762-1741 | 5704501 (19207) |
| | D | Tool Kit: Depot Maintenance 5th Ech. | 5180-00-762-1741 | 5704501 (19207) |



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## Section IV. REMARKS

| REFERENCE CODE | REMARKS |
|---|---|
| A | Repair of batteries will be in accordance with TM 9-6140-200-14 and DA Pamphlet 750-34. |
| B | Inspection of brake lines will be in accordance with TB 9-2300-405-14. |
| C | Service/inspection of winch/hoist wire rope/cables in accordance with TB 43-0142. |
| D | Tires/Tubes: Repair TM 9-2610-200-20<br>Inspection TM 9-2610-201-14<br>Storage TM 743-200-1 |
| E | Repair of frames will be in accordance with TB 9-2300-247-40. |

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Distribution:
To be distributed in accordance with DA Form 12-38 Organizational maintenance requirements for 5-Ton Truck, Chassis: 6X6, M809.

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DATE SENT
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| 1-14 | | | 1-1 |
| 1-19 | | | 1-1 |

IN THIS SPACE TELL WHAT IS WRONG AND WHAT SHOULD BE DONE ABOUT IT:

Item 6, Steering system, step 1 reads "Check that free play in steering wheel (1) is not more than two inches." Should read "Check that free play in steering wheel (1) is not more than one inch."

Change illustration callouts. Reason: callouts for U-bolts (3) and torque rods (4) are reversed.

Item 16, Wheel and tire assemblies, third sentence refers to TM 1870-1. Should refer to TM 9-1870-1.

SAMPLE

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Jane Idone

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## THE METRIC SYSTEM AND EQUIVALENTS

### LINEAR MEASURE

1 Centimeter = 10 Millimeters = 0.01 Meters = 0.3937 Inches
1 Meter = 100 Centimeters = 1,000 Millimeters = 39.37 Inches
1 Kilo Meter = 1,000 Meters = 0.621 Miles

### WEIGHTS

1 Gram = 0.001 Kilograms = 1,000 Milligrams = 0.035 Ounces
1 Kilogram = 1,000 Grams = 2.2 Lb
1 Metric Ton = 1,000 Kilograms = 1 Megagram = 1.1 Short Tons

### LIQUID MEASURE

1 Milliliter = 0.001 Liters = 0.0338 Fluid Ounces
1 Liter = 1,000 Milliliters = 33.82 Fluid Ounces

### SQUARE MEASURE

1 Sq Centimeter = 100 Sq Millimeters = 0.155 Sq Inches
1 Sq Meter = 10,000 Sq Centimeters = 10.76 Sq Feet
1 Sq Kilometer = 1,000,000 Sq Meters = 0.386 Sq Miles

### CUBIC MEASURE

1 Cu Centimeter = 1,000 Cu Millimeters = 0.06 Cu Inches
1 Cu Meter = 1,000,000 Cu Centimeters = 35.31 Cu Feet

### TEMPERATURE

5/9 (°F -32) = °C
212° Fahrenheit is equivalent to 100° Celsius
90° Fahrenheit is equivalent to 32.2° Celsius
32° Fahrenheit is equivalent to 0° Celsius
9/5 C° +32 = F°

## APPROXIMATE CONVERSION FACTORS

| TO CHANGE | TO | MULTIPLY BY |
|---|---|---|
| Inches | Centimeters | 2.540 |
| Feet | Meters | 0.305 |
| Yards | Meters | 0.914 |
| Miles | Kilometers | 1.609 |
| Square Inches | Square Centimeters | 6.451 |
| Square Feet | Square Meters | 0.093 |
| Square Yards | Square Meters | 0.836 |
| Square Miles | Square Kilometers | 2.590 |
| Acres | Square Hectometers | 0.405 |
| Cubic Feet | Cubic Meters | 0.028 |
| Cubic Yards | Cubic Meters | 0.765 |
| Fluid Ounces | Milliliters | 29.573 |
| Pints | Liters | 0.473 |
| Quarts | Liters | 0.946 |
| Gallons | Liters | 3.785 |
| Ounces | Grams | 28.349 |
| Pounds | Kilograms | 0.454 |
| Short Tons | Metric Tons | 0.907 |
| Pound-Feet | Newton-Meters | 1.356 |
| Pounds Per Square Inch | Kilopascals | 6.895 |
| Miles Per Gallon | Kilometers Per Liter | 0.425 |
| Miles Per Hour | Kilometers Per Hour | 1.609 |

| TO CHANGE | TO | MULTIPLY BY |
|---|---|---|
| Centimeters | Inches | 0.394 |
| Meters | Feet | 3.280 |
| Meters | Yards | 1.094 |
| Kilometers | Miles | 0.621 |
| Square Centimeters | Square Inches | 0.155 |
| Square Meters | Square Feet | 10.764 |
| Square Meters | Square Yards | 1.196 |
| Square Kilometers | Square Miles | 0.386 |
| Square Hectometers | Acres | 2.471 |
| Cubic Meters | Cubic Feet | 35.315 |
| Cubic Meters | Cubic Yards | 1.308 |
| Millimeters | Fluid Ounces | 0.034 |
| Liters | Pints | 2.113 |
| Liters | Quarts | 1.057 |
| Liters | Gallons | 0.264 |
| Grams | Ounces | 0.035 |
| Kilograms | Pounds | 2.205 |
| Metric Tons | Short Tons | 1.102 |
| Newton-Meters | Pound-Feet | 0.738 |
| Kilopascals | Pounds Per Square Inch | 0.145 |
| Kilometers Per Liter | Miles Per Gallon | 2.354 |
| Kilometers Per Hour | Miles Per Hour | 0.621 |

PIN: 048140-000